

1.0 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Steri-Pak LF Bowie-Dick Test Sheet

Other Names: Lead Free Bowie-Dick Test Sheets

Product Codes: BD-110

Producer: SteriTec Products, Incorporated
74 Inverness Drive East
Englewood, Colorado 80112 (USA)

Telephone No.: 1-303-660-4201 (8:00 AM – 5:00 PM PST)
Facsimile No.: 1-303-660-4213 (24 Hours)
Emergency No.: 1-800-424-9300 (CHEMTREC) 24-Hour All Emergencies
1-703-527-3887 (From Outside USA - Collect Calls Accepted)

NOTICE: THIS PRODUCT MEETS THE DEFINITION OF AN "ARTICLE" AND IS EXEMPTED FROM SDS REQUIREMENTS AS DEFINED BY SECTION 1.3.2.1.1 OF THE GHS FOURTH REVISED EDITION (2011), 29 CFR PART 1910.1200 OF THE U.S. OSHA HAZARD COMMUNICATION STANDARD, AND SECTION 3 OF THE CANADIAN HAZARDOUS PRODUCTS ACT. THE INFORMATION PROVIDED IN THIS SDS IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT NECESSARILY REFLECT WARNING AND PRECAUTIONARY STATEMENTS INDICATED IN THE PRODUCT'S PACKAGING OR CONTAINER LABEL. ADDITIONALLY, THE INGREDIENTS CONTAINED IN THIS PRODUCT ARE BELOW THE RESPECTIVE CUT-OFF LEVELS FOR SDS DEVELOPMENT UNDER THE ABOVE REFERENCED REGULATIONS.

2.0 HAZARDS IDENTIFICATION

GHS Classification: Acute Toxicity (Oral), Category 5
Acute Toxicity (Dermal), Category 5

GHS Label Code(s): H303 + H313

Pictogram: None

Signal Word(s): Warning

Hazard Statement(s): H303 + H313 May be harmful if swallowed or in contact with skin.

Precautionary Statement(s):

P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective eye protection.

This product presents no health or physical hazards under normal conditions of use. Inhalation of decomposition products from burning may cause eye and respiratory irritation. If irritation develops following inhalation of decomposition products, remove the victim from area to fresh air. If symptoms persist, get prompt medical attention.

This product is essentially nonirritating to skin. Prolonged exposure to skin is not likely to result in material being absorbed through skin in harmful amounts. Ingestion of significant amounts of

this product is highly unlikely. Ingestion of physical article may cause choking if swallowed. Single dose toxicity is believed to be very low.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS Number | EC Number | Weight % |
|--------------------------|----------------|----------------|------------|
| Trade Secret 1 | Registered | Registered | 3.0 - 6.0% |
| Sulfur | 7704-34-9 | 213-772-6 | 1.0 - 3.0% |
| Non-Hazardous Components | Not Applicable | Not Applicable | 91.0% |

4.0 FIRST AID MEASURES

INHALATION

Breathing difficulty caused by inhalation of particulates requires removal to fresh air. If breathing has stopped, perform artificial respiration if qualified and trained and obtain medical assistance at once.

INGESTION

Obtain medical assistance at once regardless of the presence or absence of symptoms. Only induce vomiting if advised by a medical professional.

SKIN

Subcutaneous deposition through skin cuts and abrasions can be treated by standard first aid measures. Skin contamination through direct contact can be removed by washing with soap and water. If irritation persists, obtain medical assistance.

EYES

Material should be flushed from the eyes with copious amounts of clean water. If irritation persists, obtain medical assistance. DO NOT rub the eyes if particulate matter or foreign objects are present as corneal damage can occur.

5.0 FIREFIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use water, dry chemical, foam, or carbon dioxide to extinguish fire.

FIRE FIGHTING PROCEDURES: Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

COMBUSTION PRODUCTS: Irritating or toxic substances may be emitted upon thermal decomposition including oxides of sulfur, bismuth, carbon and nitrogen.

6.0 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

FOR NON-EMERGENCY PERSONNEL

Spills or releases of this product are not expected to result in significant emergency response procedures. Wear protective cotton gloves or their equivalent when cleaning spilled or released material.

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES FOR EMERGENCY RESPONDERS

If large amounts of spilled or released materials are involved, wear appropriate and approved protective clothing appropriate to the incident to prevent skin contact. Respiratory protection should be worn if material is involved in a fire. (See Section 8.0).

ENVIRONMENTAL PRECAUTIONS

Prevent water used to extinguish fires from reaching drains, sewers, surface waters or groundwater.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP

Released material in dry form may be swept up using a broom and dust pan or picked up by hand if wearing protective cotton gloves or their equivalent. Prevent water used to extinguish fires from reaching drains, sewers, surface waters or groundwater by diking, berming or using vacuuming methods to clean up extinguishing media.

7.0 HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING**

Under conditions of normal handling and use expected for this product, no handling precautions other than those explained below are believed to be necessary. Handling precautions will be dependent on the method in which the product is used. Consult your safety representative for more details. DO NOT eat, drink or smoke when handling this product. Wash hands thoroughly after handling.

STORAGE

Keep product sealed in its original container at room temperature 10 to 38°C (50 to 100° F) and at normal humidity (30 to 60 %). DO NOT mix this product with any other chemical substances.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION**CONTROL PARAMETERS**

| Component | CAS Number | OSHA PEL (mg/m3) | ACGIH TLV (mg/m3) |
|--------------------------|----------------|---------------------|----------------------|
| Trade Secret 1 | Registered | None Established | None Established |
| Trade Secret 2 | Registered | None Established | None Established |
| Non-Hazardous Components | Not Applicable | Not Applicable | Not Applicable |

APPROPRIATE ENGINEERING CONTROLS

None needed when this product is used in its prescribed manner by qualified personnel.

EYE/FACE PROTECTION

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN PROTECTION

None needed when this product is used in its prescribed manner by qualified personnel. Wear impervious clothing if exposures to skin are excessive. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

RESPIRATORY PROTECTION

None needed when this product is used in its prescribed manner by qualified personnel. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

THERMAL HAZARDS

None anticipated when this product is used in its prescribed manner by qualified personnel.

HYGIENE MEASURES

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------|-------------------------------|-------------------------------|----------------|
| Appearance: | Blue Paper Test Sheet (Solid) | Upper Flammable Limit: | Not Applicable |
| Odor: | None | Lower Flammable Limit: | Not Applicable |
| Odor Threshold: | None | Vapor Pressure: | Not Applicable |
| pH: | Not Applicable | Vapor Density: | Not Applicable |
| Melting Point: | Not Applicable | Relative Density: | Not Applicable |
| Freezing Point::: | Not Applicable | Solubility: | Not Soluble |
| Boiling Point: | Not Applicable | Octanol/Partition Coefficient | Not Applicable |
| Boiling Range: | Not Applicable | Auto Ignition Temperature: | Not Available |
| Flash Point: | Not Applicable | Decomposition Temperature: | Not Available |
| Evaporation Rate" | Not Applicable | Viscosity: | Not Applicable |
| Flammability: | Not Flammable | | |

10. STABILITY AND REACTIVITY

| | |
|-------------------------------------|---|
| Reactivity: | This product is not reactive. |
| Chemical Stability: | This product is stable under normal handling conditions. |
| Possibility of Hazardous Reactions: | This product will not polymerize. |
| Conditions To Avoid: | Avoid open flames as test paper is combustible. |
| Incompatible Materials: | Acids, Bases, Oxidizers, Reducing Agents and Halogens. |
| Hazardous Decomposition Products: | Irritating or toxic substances including metallic oxides and oxides of sulfur, carbon and nitrogen. |

11.0 TOXICOLOGICAL INFORMATION

The toxicological properties of this product have not been fully investigated as a whole.

| | |
|--------------------------------------|-------------------|
| Acute Toxicity: | No Data Available |
| Skin Corrosion/Irritation: | No Data Available |
| Serious Eye Damage/Irritation: | No Data Available |
| Respiratory or Skin Desensitization: | No Data Available |
| Germ Cell Mutagenicity: | No Data Available |
| Carcinogenicity: | No Data Available |
| Reproductive Toxicity: | No Data Available |
| STOT- Single Exposure: | No Data Available |
| STOT-Repeated Exposure: | No Data Available |
| Aspiration Hazard: | No Data Available |
| Ingestion: | No Data Available |
| Inhalation: | No Data Available |
| Skin/Eye Exposure: | No Data Available |
| Acute and Chronic Effects: | No Data Available |
| Potential Health Effects: | No Data Available |
| Signs and Symptoms of Exposure: | No Data Available |
| Synergistic Effects: | No Data Available |

12.0 ECOLOGICAL INFORMATION

The ecological properties of this product have not been fully investigated as a whole.

TOXICITY TO FISH AND INVERTEBRATES

No Data Available

PERSISTENCE AND DEGRADABILITY

No Data Available

BIOACCUMULATIVE POTENTIAL

No Data Available

MOBILITY IN SOIL

No Data Available

PBT AND vPvB ASSESSMENT

No Data Available

OTHER ADVERSE EFFECTS

No Data Available

13.0 DISPOSAL CONSIDERATIONS**PRODUCT**

Offer surplus and non-recyclable material to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

CONTAMINATED PACKAGING
Dispose of as unused product.

14.0 TRANSPORT INFORMATION

This product is not a hazardous material when shipped according to DOT, IATA or IMDG shipping regulations.

15.0 REGULATORY INFORMATION

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (EPCRA)
This product is exempt from regulation under the "article exemption".

TOXIC SUBSTANCES CONTROL ACT (TSCA)
All constituents are listed on the TSCA Inventory.

CLEAN AIR ACT (CAA)
This product is exempt from regulation under the "article exemption".

CLEAN WATER ACT (CWA)
This product is exempt from regulation under the "article exemption".

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT
This product is exempt from regulation under the "article exemption".

STATE RIGHT TO KNOW LISTS
No substances in this product are present above any U.S. State's respective thresholds.

CALIFORNIA PROPOSITION 65 COMPONENTS
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 313 SUPPLIER NOTIFICATION
This product is exempt from regulation under the "article exemption".

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES
All substances contained in this product are listed on the EINECS.

16.0 OTHER INFORMATION

This Material Safety Data Sheet complies with the U.S. Hazard Communication Requirements contained in 29 CFR Part 1910.1200 as promulgated by the U.S. Occupational Health and Safety Administration (OSHA), the American National Standards Institute (ANSI) recommended practice for preparing MSDS sheets as contained in ANSI Z400.1- 2004, Section 13 of the Canadian Hazardous Products Act (HPA) and the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

ABBREVIATIONS

| | |
|-------|--|
| % | Percent |
| ACGIH | U.S. American Conference of Governmental Industrial Hygienists |
| ANSI | American National Standards Institute |
| C | Degrees Celsius |

| | |
|-------------------|---|
| CAA | U.S. Clean Air Act |
| CAS | Chemical Abstracts Number |
| CERCLA | U.S. Comprehensive Environmental Response Compensation And Liability Act |
| CWA | U.S. Clean Water Act |
| DOT | U.S. Department of Transportation |
| EC | European Commission Number |
| EC50 | Half maximal effective concentration |
| EINECS | European Inventory Of Existing Commercial Chemical Substances |
| EPCRA | U.S. Emergency Planning And Community Right-To-Know Act |
| EU | European Union |
| F | Degrees Fahrenheit |
| GHS | Globally Harmonized System (GHS) of Classification and Labeling of Chemicals |
| h | Hours |
| HPA | Hazardous Products Act |
| IARC | International Agency for the Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Lethal Dose to kill 50% of test species via inhalation |
| LD50 | Lethal Dose to kill 50% of test species via oral or dermal administration |
| LDLO | Lethal Dose - Low Concentration |
| mg/kg | Milligram per kilogram of body weight |
| mg/l | Milligrams per liter |
| mg/m ³ | Milligrams per cubic meter |
| MSDS | Material Safety Data Sheet |
| NAAQS | National Ambient Air Quality Standard established under CAA |
| NPDES | U.S. National Pollutant Discharge Elimination System |
| NTP | U.S. National Toxicology Program |
| OSHA | U.S. Occupational Safety and Health Administration (See U.S.) |
| PBT | Persistent Bioaccumulative Toxin |
| PEL | Permissible Exposure Limit Averaged Over 8 Hours (See OSHA) |
| ppb | Parts Per Billion |
| ppm | Parts Per Million |
| Prop 65 | California Proposition 65 |
| REACH | Registration, Evaluation, Authorization and Restriction of Chemicals (See EU) |
| RQ | Reportable Quantity |
| RTK | Right-To-Know |
| SDS | Safety Data Sheet |
| SVHC | Substances of Very High Concern (See REACH) |
| TLV | Threshold Limit Value Averaged Over 8 Hours (See ACGIH) |
| TSCA | U.S. Toxic Substances Control Act |

U.S. United States
vPvB Very Persistent, Very Bioaccumulative Chemical (See REACH).
WHIMS Canadian Workplace Hazardous Materials Information System

IMPORTANT USE NOTICE

Information contained in this Material Safety Data Sheet is offered for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on information which we believe to be reliable. However, the accuracy and completeness of such information is not guaranteed and no warranty of any kind, either expressed or implied, is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe upon any patent of SteriTec or its subsidiaries or others covering any process, composition of matter, or use. Since SteriTec or its subsidiaries have no control over the use of this product, SteriTec and its subsidiaries assumes no liability of any kind whatsoever for any loss or damages incurred from the proper or improper use of this product. End users of this product are responsible for conforming with all applicable Federal, State, Provincial, International and Local laws, rules and regulations.

END of SDS

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Authored By: Michael Boozer / ChemReport, Incorporated
Co Authored By Joe Vargas / Steritec Products