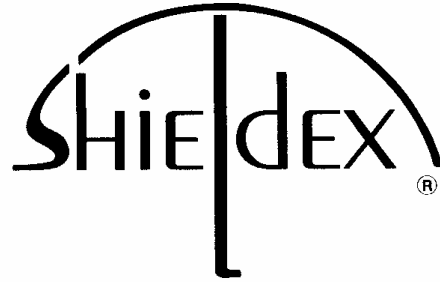


**STATEX MATERIAL SAFETY DATA**

STATEX Product Name  
**SHIELDEX® Sn -Cu/PW**  
 (Tin-Copper Coated Woven /or/ Non-Woven Nylon Fabric)



STATEX  
 Produktions + Vertriebs GmbH  
 Querlandstr. 6b. 28357 Bremen

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**PRODUCT IDENTIFICATION**


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Chemical Name:	Not Applicable
DOT Proper Shipping Name:	Not Applicable
DOT Hazard Classif. D. NO Packing Group	Not Applicable
DOT Label	Not Applicable
Reportable Quantity (RQ) under U.S. EPA CERCLA Regulations:	Not Applicable

SARA Hazard Notification  
 Hazard Carcinogen under Criteria  
 Of SARA Title W Rules  
 (40 CFR Part 370): Immediate, Delayed

## Section 313 Hazardous Chemical(s):

This product contains the following substances, which are defined as toxic chemicals under, and subject to the reporting requirements of Section 313 of Title W of the Superfund Amenanemia and Reauthorization Act of 1988 and 40 CFR Part 372:

Tin, CAS No 7440-31-5 (Listed as Tin, Foil 0.025MM thick)

Copper, CAS No. 7440-50-8 (listed as copper compounds)

In addition these compounds are considered hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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**PERCAUTIONARY MEASURES AND FIRST AID**


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IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.  
 FLUSH SKIN WITH WATER.  
 IF INHALED, REMOVE TO FRESH AIR.

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## **OCCUPATIONAL CONTROL PROCEDURES**

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CHEMICAL SAFETY GOGGLES.

COMPATIBLE CHEMICAL-RESISTANT GLOVES.

NIOSH/MSHA-APPROVED RESPIRATOR.

SAFETY SHOWER AND EYE BATH.

MECHANICAL EXHAUST REQUIRED.

AVOID CONTACT AND INHALATION.

WASH THOROUGHLY AFTER HANDLING.

KEEP CONTAINER CLOSED.

Airborne Exposure Limits

Product: Shieldex® Tin and Copper coated Woven & Non-Woven Nylon Fabric

OSHA PEL: None established

ACGIH TLV None established

Component Tin

OSHA PEL/8-hour TWA: 2 mg/m<sup>3</sup>

ACGIH TLV/8-hour TWA: 2 mg/m<sup>3</sup>

Component Copper

OSHA PEL/8-hour TWA: 1.0mg/m<sup>3</sup> (dust and mists as Cu)

ACGIH/TLV/8-hour TWA: 1.0 mg/m<sup>3</sup> (dusts and mists as Cu)

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## **FIRE PROTECTION INFORMATION**

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Extinguishing Media: Water or other Class A extinguishing agent

Special Firefighting Procedures: Firefighters and others who may be exposed to products of combustion should wear full protective clothing including self-contained breathing apparatus.

Unusual Fire and Exposure Hazards: None known

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## **REACTIVITY DATA**

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Materials and Components to Avoid: None known

Hazardous Decomposition Products: None known

Hazardous Polymerization: Does not occur

**STATEX** Product Name

**SHIELDEX® Sn-Cu/PW**

(Tin-Copper Coated Woven /or/ Non-Woven Nylon Fabric)

## **HEALTH EFFECTS SUMMARY**

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation of Shieldex® Tin and Copper Coated Woven Nylon Fabric and development of Precautionary Measures and Occupational Control Procedures recommended in this document.

### Effects of Exposure

Shieldex® Tin - Copper coated Coated Woven Nylon Fabric consists of a nylon fabric substrate with a tin and copper metallic surface. Skin contact is expected to be the primary route of occupational exposure.

### ACUTE EFFECTS

MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.

MAY CAUSE EYE IRRITATION.

MAY CAUSE SKIN IRRITATION.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: XP7320000

### Toxicological Data

#### Tin

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

#### Copper

Copper is an essential trace element for man, animals and plants. As a result, numerous publications concerning its role in biochemistry, nutrition and clinical medicine are available in the scientific literature. Excessive exposure to fumes and mists of copper can produce eye and upper respiratory tract irritation, coughing, sneezing, a metallic taste, digestive disorders and changes in nasal tissue. Industrial exposure to very fine copper dust has been reported to cause an apparent metal fume fever, a 24 to 48-hour illness with symptoms of dryness and irritation of the throat, constriction in chest, wheezing, chills, fever, perspiration, fatigue and muscle cramps. Greenish discoloration of skin, hair and teeth has been observed in some copper workers after heavy fume exposure of long duration.

Reports in the literature suggest that copper may act with other workplace agents or rare hereditary disorders of copper metabolism to produce liver disease in some workers. Though rare allergic skin reaction to copper have also been reported. Anemia has occurred as a result of using copper-containing dialysis equipment.

The median lethal dose for copper metal dust in mice intra-peritoneal injection was 3.5 mg/kg.

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**PHYSICAL DATA**

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Appearance: A solid coated fabric  
Odor: None

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

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**SPILL, LEAK & DISPOSAL INFORMATION**

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Spill of leakage Procedure: Sweep up and place into containers for disposal.

Disposal: Shieldex® Tin and Copper Coated Woven Nylon Fabric is not a “hazardous waste” as that term is defined in 40 CFR 261, “Identification and Listing of Hazardous Waste”. Dispose of waste by recovery of metals, incineration, sanitary landfill or other method in of appropriate regulatory officials for information on such disposal.

Spill or Leakage Procedures: Sweep up and place into containers for disposal.

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Although the information and recommendations set forth herein (hereinafter information) are presented in good faith and believed to be correct as of the data hereof, STATEX Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will STATEX Company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

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