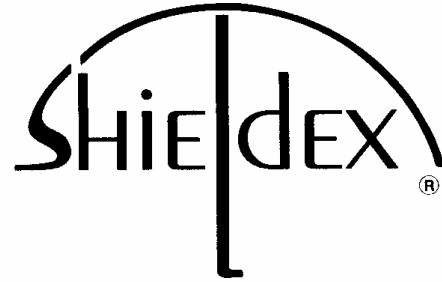


STATEX MATERIAL SAFETY DATA

STATEX Product Name
SHIELDDEX® COPPER COATED
NON /or/ WOVEN NYLON FABRIC

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

PRODUCT IDENTIFICATION

Chemical Name: Not Applicable
 DOT Proper Shipping Name: Not Applicable
 DOT Hazard Class/I.D. No.: Not Applicable
 DOT Label: Not Applicable
 U.S Freight Classification
 Reportable Quantity (RQ) Under
 DOT (49 CFR) and CERCLA Regulations: Not Applicable

SARA Hazard Notification

Hazard Categories under criteria of SARA Title III rules (40 CFR Part 370): Not Applicable
 Section 313 Hazardous Chemicals(s):

This product contains the following substance, which is defined as a toxic chemical under, and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

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

In addition, this component is considered a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

PRECAUTIONARY MEASURES AND FIRST AID

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES
 THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF THE
 MATERIAL FROM EYES, SKIN AND CLOTHING.

OCCUPATIONAL CONTROL PROCEDURES

Eye Protection: SHIELDDEX® copper coated non-woven nylon fabric does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

Skin Protection: SHIELDDEX® copper-coated non-woven nylon fabric does not present a significant skin concern requiring special protection.

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HEALTH EFFECTS SUMMARY (continued)

Effects of Exposure

SHIELDEX® copper coated non-woven nylon fabric consists of a continuous non-woven nylon fabric substrate with a metallic (copper) surface coating. Skin contact is expected to be the primary route of occupational exposure to SHIELDEX® copper coated non-woven nylon fabric. Occupational exposure to this developmental material has not been reported to cause significant adverse health effects. Due to its chemical and physical properties SHIELDEX® copper coated non-woven nylon fabric does not appear to possess and toxicological properties which would require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type. SHIELDEX® copper coated non-woven fabric is not expected to present an inhalation hazard during routine shipping or handling. Under aggressive condition of physical manipulation (carding, weaving, etc.) there is a potential for generation of respirable fibers and metal dusts, If respirable metal dust are generated, see “Toxicological Data” below for potential toxic effects of copper.

Toxicological Data

For potential health effects of exposure to any metal dusts generated under aggressive use conditions of copper coated non-woven nylon fabric, a summary of the effects reported in the scientific literature on copper, the metal present in this metal coated material, are discussed below:

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 the chest, wheezing, chills, fever, perspiration, fatigue and muscle cramps. Greenish discoloration of skin, hair and teeth has been observed in some copper workers after heave fume exposure of long duration.

Reports in the literature suggest that copper may act with other workplace agents of subclinical metabolic disorders to produce liver disease in some workers. Though rare, allergic skin reactions 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 by intra-peritoneal injection was 3.5 mg/kg.

Additional Information

A Threshold Limit Valute (TLV) has been established by American Conference of Governmental of Governmental Industrial Hygienists for copper. For further information on this material, please refer to the current edition of the Documentation of the Treshold Limit Values and Biological Exposure Indices.

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PHYSICAL DATA

Appearance: Coated fabric
Odor: None

OCCUPATIONAL CONTROL PROCEDURES (continued)

Respiratory Protection: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits (see below) are exceeded. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

Ventilation: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

Airborne Exposure Limits:

Product: SHIELDEX® copper coated non-woven nylon fabric
OSHA Pel: None established
ACGIH TLV: None established
Component: Copper

OSHA PEL/ 8-hour Time-weighted average: 0.1 mg/m³ (fume as Cu)

ACGIH TLV / 8-hour Time-weighted average: 0.2 mg/m³ (fume)

FIRE PROTECTION INFORMATION

Flash Ignition Temperature:
Auto Ignition Temperature:

Extinguishing Media: Water or other Class A extinguishing agent.

Special Firefighting Procedures: Fire fighters and others who may be exposed to products of combustion should wear full protective including self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

Unusual Fire and Explosion Hazards: None known.

REACTIVITY DATA

Materials and Conditions to Avoid: None Known.

Hazardous Decomposition Products: None Known.

Hazardous Polymerization: Does not occur.

HEALTH EFFECTS SUMMARY

The following information summarizes human experience and results of scientific investigations reviewed by health professionals for hazard evaluation of SHIELDEX® copper coated non-woven nylon fabric and

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development of precautionary Measures and Occupational Control Procedures recommended in this document.

SPILL, LEAK & DISPOSAL INFORMATION

Waste Disposal: SHIELDEX® copper coated non-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 accordance with all applicable local, state and federal laws and regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

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

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