

MATERIAL SAFETY DATA SHEET – WOVEN FABRIC

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Section 1: Identification: Material Safety Data Sheet
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PRODUCT DESCRIPTION: Woven fabric made of synthetic fibers, cellulose fibers, or blends thereof. These fabrics may be treated with chemicals containing formaldehyde and may release formaldehyde gas to the atmosphere.

Section 2: Hazardous Ingredients:

Chemical component: Formaldehyde: CAS No.: 50-00-0

Exposure Limits: OSHA PEL(TWA) 0.75 ppm
STEL 2.0 ppm
ACGIH TLV 1.0 ppm

Section 3: Physical Data:

Formaldehyde has a pungent odor. Physical data for the fabric finished with chemicals containing formaldehyde is not applicable.

Section 4: Fire and Explosion Data:

The hazardous gases/vapors produced by the fiber in a fire are oxides of nitrogen, carbon monoxide, ammonia and traces of hydrogen cyanide. Use water, carbon dioxide, dry chemical, or foam to extinguish fires. Use normal fire fighting procedures, including positive pressure self contained breathing apparatus and full fire fighting protection clothing. Keep personnel away and upwind of fire and avoid contact with smoke and fumes.

Section 5: Reactivity Data:

Reactivity or chemical data for fabrics finished with chemicals containing formaldehyde is not applicable under normal conditions.

Hazardous decomposition products:

The burning of this product can release formaldehyde, oxides of nitrogen, carbon monoxide, ammonia, and traces of hydrogen cyanide.

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Section 6: Heath Hazard Data and Information:

The fabric products may release small amounts of formaldehyde under conditions. Causes eye irritation. Causes skin, nose, throat and lung irritation. May cause allergic skin reaction.

Human Health Effects:

Exposure to formaldehyde may result from skin contact with the fabric, or by inhalation of formaldehyde gas released into the air. Exposures to formaldehyde from any source include irritation with discomfort or rash, or allergic skin rash. Eye contact with formaldehyde causes eye irritation with discomfort, tearing, and blurring of vision. Overexposure to formaldehyde vapors may include discomfort, such as nausea, headache, or weakness; irritation of the upper respiratory passages; temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath. In the even of overexposure, remove the individual from contact with the source. Individuals with preexisting diseases of the lungs, eyes, or skin may have increased susceptibility to the toxicity of excessive exposures.

Carcinogenicity:

Formaldehyde is listed by the International Agency for Research on Cancer as probably carcinogenic to humans, on the basis of animal evidence and at least limited human data, (IARC group 2a). Listed by the National Toxicology Program as reasonably anticipated to be carcinogenic. Listed by ACGIH as an A2 Industrial Substance of Carcinogenic Potential for man. OSHA, in it's epidemiology studies have failed to link cancer in humans with occupational exposure to formaldehyde. Formaldehyde (gas) is a chemical known to the State of California to cause cancer.

Section 7: Safe Handling Precautions:

Fabric finished with chemicals containing formaldehyde do not present a disposal problem. Dispose of in accordance with federal, state, and local regulations. General ventilation should be used to maintain exposures below applicable exposure limits. Recirculating systems should, whenever practicable, be operated in the bypass mode to avoid concentrating air contaminants in the work space. During fabric processing, formaldehyde exposure control is the responsibility of the user. The potential level of exposure will depend on the amount of these and other fabrics in process, the work area size, ventilation, temperature, and humidity. Because of the variability of conditions which may exist, evaluation of personnel exposures by a professional industrial hygienist is recommended.

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Section 8: Control Measures:

Respiratory protection:

A NIOSH/MSHA approved respirator should be used in accordance with the requirements of 29CFR1910.134(b), (d), (e), and (f) in those cases where the ambient formaldehyde levels exceed the appropriate health standard.

Engineering Controls:

Use adequate ventilation in work areas to keep formaldehyde levels below regulated limits.

Work Practices:

Use adequate ventilation in work areas to keep formaldehyde levels below regulated limits.

Personal Protective Equipment:

None required.

Hygiene Practices:

Wash exposed areas of skin thoroughly with water at end of exposure.

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