DUPONT MATERIAL SAFETY DATA SHEET
E. I. DUPONT DE NEMOURS & CO., (INC.)
FIBERS
WILMINGTON, DE 19898

DUPONT DACRON* POLYESTER FIBER

STAPLE AND YARN

DuPont Dacron* is a solid organic polymer composed of carbon, hydrogen and oxygen. There are no known physical or health hazards associated with the product itself.

Dacron* fiber, as supplied by DuPont, has been tested for toxicity by skin tests on animals and humans and by feeding tests in animals. No toxic reactions have been observed. We have received no reports of adverse health effects which can be attributed to this fiber over many years of experience in our own plants and in customer operations.

There is a possibility for certain potential hazards to result from the processing of the product. Although we cannot know every conceivable processing condition we feel you should be aware of this potential in general.

If in processing there is significant potential for the fiber itself to become airborne, DuPont recommends an airborne exposure limit of 10 mg fiber as particulate/m3 as an 8-hour time weighted average (TWA).

This product may contain up to five percent titanium dioxide (Tio2) (CAS No. 13463-67-2) as a delustrant. Animal studies have shown a low incidence of lung tumors in some rats exposed by inhalation to a massive airborne level of pure Tio2 dust (250mg/m3) for their lifetimes. No pathological or toxicologically significant effects or clinical signs of toxicity were observed at any of the lower test levels (50 and 10mg/m3). We do not believe pure Tio2 presents a significant hazard if airborne concentractions are controlled to a reasonable level. We have concluded the American Conference of Governmental Industrial Hygienist (ACGIH) TLV of 10mg Tio2/m3 as total dust and 5mg Tio2/m3 respirable dust, as 8-hour TWA for airborne exposures will provide adequate protection of employees.

This product may contain up to three percent fiber lubricants, typically consisting of various formulations of natural oils such as coconut and peanut oils, esters, oleates, palmitates and stearates. These lubricating oils are toxicologically evaluated prior to product commercialization and have been found to be generally of a low order of acute oral and inhalation toxicity in animals and dermal toxicity in humans and do not present a significant health hazard in their normal handling and use. If in processing there is a potential to generate airborne concentrations of these oils as a mist, we recommend an airborne exposure limit of 5mg as particulate/m3 as an 8-hour TWA.

If heated to elevated temperatures (200-250 C) during processing, these lubricating oils can degrade and generate off gases which may contain very small amounts of such chemicals as formaldehyde, ethanol, methanol, acetic acid, acetone, etc. The exact chemical composition of these gases will, of course, depend on the conditions of heating, (temperature, duration, availability of oxygen). In our experience we are not aware of chemicals such as these reaching concentrations that present a serious health hazard. However, information on the toxixc effects and recommended exposure limits of these and other chemicals can be found in the most recent edition of the ACGIH Documentation of Threshold Limit Values.

While no special controls of handling procedures are required, it is

important that exposure to any inhalable material be minimized by the use of adequate ventilation, such as local exhaust, effective containment, and personal cleanliness.

When Dacron* is burned, no unusual combustion gases have been observed, and its conbustion products are similar to those of other organic materials composed of the same elements. Dacron* is not readily biodegradeable, nor radioactive. It contains no significant percentage of materials extractable in water so its effect on ground water in case of landfill should be negligible. It is stable in all recommended use environments and requires no special spill handling procedures.

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