

# **FILTRATION MATERIALS**

## **MODULE 1**

### **SUBSTANCE INFORMATION SHEET**

## FILTRATION MATERIALS

### General Information

#### Uses

Presently, most cigarette filters are made from cellulose acetate, with charcoal occasionally used in specialized filter products intended to remove vapor phase smoke constituents. The primary purpose of the cigarette filter is to act as a trap for the particulate or gas vapor material generated by the burned tobacco. In addition to the filtration function, the filter may also serve as a mouthpiece to prevent direct contact between the tobacco rod and the mouth.

#### Composition

A number of various tow and plasticizer materials have been evaluated. Table 1 summarizes the various filter material ingredients that were disclosed by the vendors

Table 1

<b>Ingredient</b>	<b>CAS</b>	<b>E-number</b>
Activated charcoal	7440-44-0	n/a
Cellulose	9004-34-6 65996-61-4	n/a
Cellulose acetate	9004-35-7	n/a
Titanium dioxide	13463-67-7	E171
Triacetin	102-76-1	E1518

**Summary of the Toxicological Investigations on the Use of the Substance in Tobacco Products****Smoke Chemistry**

Internal Studies	Level Tested ppm	Comment
N/A	N/A	N/A

**Neutral Red Uptake Assay (NRU)**

Internal Studies	Level Tested ppm	Comment
N/A	N/A	N/A

**AMES Assay**

Internal Studies	Level Tested ppm	Comment
N/A	N/A	N/A

**Mouse Lymphoma Assay (MLA)**

Internal Studies	Level Tested ppm	Comment
N/A	N/A	N/A

***In vivo* Micronucleus**

Internal Studies	Level Tested ppm	Comment
N/A	N/A	N/A

**Inhalation studies**

Internal Studies	Level Tested ppm	Comment
N/A	N/A	N/A

