

PLUG WRAPS

MODULE 1

SUBSTANCE INFORMATION SHEET

PLUG WRAPS

General Information

Uses

The main function of plug wrap is to hold the filter tow tightly together to achieve a firm and cohesive filter rod and to hold this rod to the tobacco column of the cigarette. In the filter making process, the plug wrap is pre-applied with adhesive then transported on a belt where filter tow is fed onto it. The belt, plug wrap, and tow are then formed in a cylinder by rolling the edges of the belt inward. The edges of the plug wrap become glued together and the rods are cut into their desired lengths. The plug wrap then maintains compression on the tow band and as such must be an extremely strong paper.

Composition

A number of various plug wraps have been evaluated. Table 1 summarizes the various plug wrap ingredients that were disclosed by the worldwide vendors

Table 1

INGREDIENT	CAS	E-number
Acetyl tributyl citrate	77-90-7	n/a
Alkylketene dimer	98246-87-8	n/a
Calcium carbonate	471-34-1	E170
Carboxymethyl-cellulose and its sodium salt	9004-32-4	E466
Cellulose	9004-34-6 65996-61-4	n/a
Epichlorhydrin resin	25212-19-5	n/a
Glyoxal	107-22-2	n/a
Guar gum	68411-94-9 9000-30-0	E412
Kaolin	1332-58-7	E559
Optical brightener	-	n/a
Pigment iron oxide black	1317-61-9	E172
Polyvinol	25213-24-5 9002-89-5 54626-91-4	E1203
Rosin	91081-22-0	n/a
Starch and/or modified starches	9063-45-0 65996-62-5 65996-63-6 9005-25-8 55963-33-2	n/a
Talc	14807-96-6	E553b

Titanium dioxide	13463-67-7	E171
Viscose	68442-85-3	n/a

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



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