

Dnipropetrovs'k National Medical Academy
Regional Centre at Pridniprovs'k
on questions of toxic-hygienic and medical – biological evaluations of
industrial wastes

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To: Director of “Coral Technology” A.N.Shendikov

PROTOCOL

Sanitary – Chemical analysis of pyrolysis gas

Sanitary – chemical analysis of pyrolysis gas for the prototype machine for “utilization of worn-out automobile tires” using the method of induction pyrolysis of “Coral Technology” were conducted by the specialists of “Pridniprovs'k centre on questions of toxic – hygienic and medical – biological evaluations of industrial wastes” DGMA.

The goal of the analysis was to determine the dangerous materials (products of carbon ring formation - cyclisation) content in pyrolysis gas.

№9	Component name	Content	Limit concentration for air in work area
1	Hydrocarbons, mixture (C _n H _m)	22	-----
2	Methane, CH ₄	28%	-----
3	Hydrogen, H ₂	30%	-----
4	Carbon monoxide, CO	15%	-----
5	Carbon dioxide, CO ₂	3%	-----
6	Benz (a) pyren	not found (<0,01 mcg/m ³)	0,15 mcg/m ³
7	Furans	not found (<0, 1 mg/m ³)	0,5 mg/m ³
8	Polychlorinated aromatic hydrocarbons	not found	

Director A. A. Shevchenko