Economic Commission for Europe
Inland Transport Committee
World Forum for Harmonization of Vehicle Regulations

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Item 4.9.14 of the provisional agenda
1958 Agreement – Consideration of draft amendments
to existing Regulations submitted by GRE

Proposal for Supplement 6 to the 01 series of amendments to
Regulation No. 98 (Headlamps with gas-discharge light
sources)

Submitted by the Working Party on Lighting and Light-Signalling *

The text reproduced below was adopted by the Working Party on Lighting and
Light-Signalling (GRE) at its seventy-second session (ECE/TRANS/WP.29/GRE/72, para.
42). It is based on ECE/TRANS/WP.29/GRE/2014/2, as amended by paragraph 42 of the
report. It is submitted to the World Forum for Harmonization of Vehicle Regulations
(WP.29) and to the Administrative Committee AC.1 for consideration.

* In accordance with the programme of work of the Inland Transport Committee for 2012–2016
(ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, programme activity 02.4), the World Forum
will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The
present document is submitted in conformity with that mandate.
Annex 4, paragraph 1.2.1.1., amend to read:

"1.2.1.1. Test mixture

1.2.1.1.1. For headlamp with the outside lens in glass:

The mixture of water and a polluting agent to be applied to the headlamp shall be composed of:

- 9 parts by weight of silica sand with a particle size of 0-100 μm,
- 1 part by weight of vegetal carbon dust produced from beech wood with a particle size of 0-100 μm,
- 0.2 parts by weight of NaCMC³,
- 5 parts by weight of sodium chloride (pure at 99 per cent),
- an appropriate quantity of distilled water, with a conductivity of ≤ 1 μS/m.

The mixture must not be more than 14 days old.

1.2.1.1.2. For headlamp with outside lens in plastic material:

The mixture of water and polluting agent to be applied to the headlamp shall be composed of:

- 9 parts by weight of silica sand with a particle size of 0-100 μm,
- 1 part by weight of vegetal carbon dust produced from beech wood with a particle size of 0-100 μm,
- 0.2 part by weight of NaCMC³,
- 5 parts by weight of sodium chloride (pure at 99 per cent),
- 13 parts by weight of distilled water with a conductivity of ≤ 1 μS/m, and
- 2 ± 1 parts by weight of surface-actant.⁴

The mixture must not be more than 14 days old."

⁴ The surface-actant is added to the mixture to enhance the wetting and spreading of the test mixture on the headlamp lens.