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**1958 Agreement – Consideration of draft amendments
to existing Regulations submitted by GRE**

Proposal for Supplement 9 to the 01 series of amendments to Regulation No. 45 (Headlamp cleaners)

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/2014/21, 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 2.1., amend to read (including the insertion of a new footnote ²):

"2.1. Test mixture

2.1.1. For headlamp with the outside lens in glass:

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

- (a) 9 parts by weight of silica sand with a particle size of 0-100 µm,
- (b) 1 part by weight of vegetable carbon dust produced from beech wood with a particle size of 0-100 µm,
- (c) 0.2 part by weight of NaCMC¹, and
- (d) 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.

2.1.2. For headlamp with the outside lens in plastic material:

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

- (a) 9 parts by weight of silica sand with a particle size of 0-100 µm,
- (b) 1 part by weight of vegetable carbon dust produced from beech wood with a particle size of 0-100 µm,
- (c) 0.2 part by weight of NaCMC¹,
- (d) 5 parts by weight of sodium chloride (pure at 99 per cent),
- (e) 13 parts by weight of distilled water with a conductivity of ≤ 1 µS/m, and 2 ± 1 parts by weight of surface-actant. ²

2.1.3. The mixture shall be fit for applying to the headlamp by the spray gun specified under paragraph 2.3. below. The mixture shall be used not earlier than two hours and not later than 24 hours after preparation. It shall be given into the gun immediately before use.

² The tolerance on quantity is due to the necessity of obtaining dirt that correctly spreads out on all types of plastic lens."
