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Tiarco Rubber and Chemical Co
Mr. J. Vanderlip
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Dalton, GA 30721
United States of America

The Hague, 24 May 2019

Reference : LUBR/19.077/IV/nb
Subject : European Ecolabel Lubricants Letter of Compliance for OCTOPOL MB

Dear Mr VanderLip,

By means of this letter we would like to confirm that your additive, OCTOPOL MB meets the relevant EU Ecolabel criteria for Lubricants (Commission Decision 2018/1702/EU, valid until 31 December 2024). If used as a component, these additives qualify for application in final products, eligible for EU Ecolabel certification, up to their maximum treat rates. A 'final product' includes any of the product categories defined in the current EU Ecolabel criteria document.

The maximum treat rate is valid only if no other substance with the same or worse EU Ecolabel classification is present in the final product.

All substances intentionally added to the additive has been taken into account in this evaluation. These substances fulfil criterion 1 of Commission Decision 2018/1702/EU regarding the exclusion of specific substances.

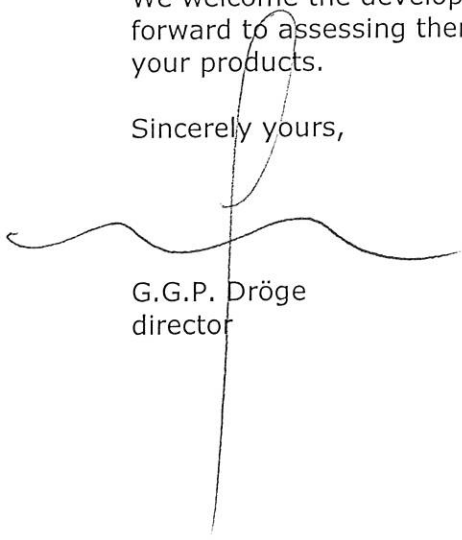
The classification of your products in terms of aquatic toxicity and biodegradability/ bioaccumulation is based on all substances and assessed conforming to a worst environmental performance (worst case approach).

The environmental criteria of the Commission Decision 2018/1702/EU allow a limited percentage of substances in the end product (lubricant), which have not been included in this assessment. These chemical substances are present in end products in concentrations lower than 0.1% and higher than 0.010%. The table presented below provides also information on the content of substances included in the package, but not fully assessed. This information and the maximum treat rate support formulators of lubricants in calculating the actual percentage of not-assessed substances in the formulation of end products.

Please note that topping up an additive package may lead to non-compliance to the criteria of Commission Decision 2018/1702/EU.

We welcome the development of more additives compliant to EU Ecolabel, and look forward to assessing them. We trust that this *Letter of Compliance* adds to the success of your products.

Sincerely yours,



G.G.P. Dröge
director

Table 1. Lubricant Substance Classification list (LuSC-list)

Company

The list is non-limitative. Companies are not obliged to use one of these substances or brands, but if used, the EEL classification can be mentioned directly on the application form without providing the underlying documents. The list consists of two parts. Part 1 consists of substances and part 2 of brands. These brands are commercially available and are indicated by their commercial name.

Part 2: Brands

Brand name ^b	Maximum allowed treat rate ^c					If less than 100% see ^d or ^e		Remark	Valid till	
	ALL (No Grease)	ALL (Only Grease)	PLL (No Grease)	PLL (Only Grease)	TLL (No Grease)	TLL (Only Grease)	EEL Biodegradation ^d A/B/C/X/- ^f			EEL Aquatic Toxicity ^e D/E/F/G(M ⁹)/- ^f
OCTOPOL MB	5.0%	15%	20%	15%	5.0%	15%	99%C	100%D	Dutch	31 December 2024

a) In case the data on the LuSC-list are different from that of its corresponding valid LoC, the valid LoC is binding.

b) Substances that are excluded by EU decision 2018/1702/EU according to Criterion 1 and uncertified Palm oil or Palm Kernel oil are not present above 0.010% in the final composition.

c) The treat rate is usually set by the supplier before the assessment. Highest treat rate is applied in case the additive may possess different functions. **The same or a lower treat rate for**

ANOTHER function does not alter its final EEL classification but in the ecolabel application form the correct function must be stated.

d) In case classification of the biodegradation has not been set at 100% but at a smaller fraction, e.g. 30%, then the total fraction with the specific classification is equal to the fraction of the treat rate applied by the applicant multiplied by the indicated fraction of the classification; e.g. 0.6% (applied treat rate) * 80% C (assessed fraction of biodegradation) is equal to 0.48% C. The value of 0.48% must be filled in in the application form for the brand name on biodegradation. The fraction not assessed on biodegradation is then automatically 0.60 - 0.48 = 0.12%.

e) In case the classification of the aquatic toxicity has not been set at 100% but at a smaller fraction, e.g. 30%, then the total fraction with the specific classification is equal to the fraction of the treat rate applied by the applicant multiplied by the indicated fraction of the classification, e.g. 0.6% (applied treat rate) * 80% E is total of 0.48% E for the brand name. The value of 0.48% must be used in the application form. The fraction unassessed on aquatic toxicity is then automatically 0.60 - 0.48 = 0.12%.

f) - means that it was not necessary to assess the substance(s) in the lubricant based on the stated maximum treat rate and the 0.1% limit in the ecolabel criteria for biodegradation, aquatic toxicity and renewability.

g) M = Multiplication factor for a substance that has an acute aquatic toxicity classified as very toxic (G).

h) Related to Criterion 4 of the EU decision 2018/1702/EU

i) bio-based fraction must be larger than >25% based on valid C-14 method. If the bio-based fraction is not established yet but renewable fraction based on C-counting method is >50%, the entry will indicate *n.d.* indication that the bio-based fraction has not been established yet.

j) The mass-based fraction and the sustainability scheme is stated e.g. 50%RP50. This indicates that the company has stated that 50% of the mass of the based fluid originates from palm oil or palm kernel oil, that this is the complete fraction of Palm oil or Palm Kernel oil applied in the product and that this fraction complies with one of the different RP50 schemes ONLY at the time of the application for the LuSC-list . If nothing is stated it means that the company has declared that Palm oil or Palm kernel oil is not used in the manufacturing process and the company does not possess any other sustainability scheme for the listed product.