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## ADDITIVES ON THE LUBRICANT SUBSTANCE CLASSIFICATION LIST (LuSC LIST)

Additives on the LuSC list meet the relevant EU Ecolabel (“EU Marguerite”) criteria for Lubricants (Commission Decision 2018/1702/EU). If used as a component, these additives qualify for application in final products eligible for EU Ecolabel certification, up to the point of their maximum treat rate.

Brand name <sup>a)</sup>	Maximum allowed treat rate [%] <sup>b) f)</sup>						If less than 100% see or		Remarks
	ALL (No Grease)	ALL (Only Grease)	PLL (No Grease)	PLL (Only Grease)	TLL (No Grease)	TLL (Only Grease)	EEL Biodegra- dation <sup>c)</sup> A/B/C/X/- <sup>e)</sup>	EEL Aquatic Toxicity <sup>d)</sup> D/E/F/G(M)/- <sup>e)</sup>	
<b>Extreme Pressure + Anti-Wear</b>									
LUBIO <sup>®</sup> EP 5	0.5	0.5	0.5	0.5	0.5	0.5	60% C	100% E	-
LUBIO <sup>®</sup> EP 14	5	15	10	15	2	10	100% C	100% E	-
LUBIO <sup>®</sup> AW 8-HQ	4	4	4	4	4	4	100% A	97.5% D; 2.5% G (M=1)	-
LUBIO <sup>®</sup> AW 15	4	4	4	4	4	4	75% A; 25% B	75% D; 25% B	-
<b>Antioxidant</b>									
LUBIO <sup>®</sup> AO 5	5	15	20	15	5	15	100% C	100% D	-
LUBIO <sup>®</sup> AO 7	5	15	20	15	5	15	100% C	100% D	-
LUBIO <sup>®</sup> AO 11	4	4	4	4	4	4	96% C	100% D	-
LUBIO <sup>®</sup> AO 18	5	15	20	15	5	15	100% C	100% D	-
LUBIO <sup>®</sup> AO 24	0.5	0.5	0.5	0.5	0.5	0.5	46% C	100% E	-
LUBIO <sup>®</sup> AS 9	0.7	0.7	0.7	0.7	0.7	0.7	62% C	30% D; 70% E	-
<b>Viscosity modifier / Pour Point depressant / Viscosity Improvers</b>									
LUBIO <sup>®</sup> TF 1	50	100	100	100	50	100	90% A; 10% C	100% D	-
<b>Other (specified in the remark field)</b>									
LUBIO <sup>®</sup> MD 3	0.13	0.13	0.13	0.13	0.13	0.13	75% B; 25% C	100% F	Metal deactivator
LUBIO <sup>®</sup> MD 6	0.5	0.5	0.5	0.5	0.5	0.5	60% C	100% E	Metal deactivator

**Notes:**

- a) Substances that are excluded by EU decision 2018/1702/EU according to Criterion 1 are not present above 0.010% in the final composition.
- b) 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.
- c) 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%.
- d) 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%.
- e) (A) Ultimately aerobically biodegradable • (B) Inherently aerobically biodegradable • (C) Non-biodegradable AND non-bioaccumulative • (X) Non-biodegradable AND bioaccumulative • (D) Non-toxic • (E) Harmful • (F) Toxic • (G) Very toxic • (M) Multiplication factor for a substance that has an acute aquatic toxicity classified as very toxic (G) • – 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.
- f) **ALL** (Accidental Loss Lubricants): Hydraulic systems, metalworking fluids, closed system gear oils and accidental loss greases. **PLL** (Partial Loss Lubricants): Open system gear oils, stern tube oils, two-stroke oils, temporary protection against corrosion and partial loss greases. **TLL** (Total Loss Lubricants): Chainsaw oils, wire rope lubricants, concrete release agents, total loss greases and other total loss lubricants.
- g) The values in this table are valid until 31.12.2024.

## ADDITIVES LISTED ON THE LUBRICANT COMPONENT CLASSIFICATION LIST (APPENDIX 1) OF DE-UZ 178 (“BIODEGRADABLE LUBRICANTS AND HYDRAULIC FLUIDS”)

Additives listed in the Lubricant Component Classification list (Appendix 1) comply with the criteria directed at components pursuant to DE-UZ 178. When applying for the Blue Angel („Der Blaue Engel”), no further data must be submitted for these products.

Brand name	Maximum treat rate [%] <sup>a)</sup>						Based on 100% treat rate		Remarks
	2.1. • 1	2.1. • 2-4	2.2.	2.3.	2.4.	2.5.	Biodegradation / Bioaccumulation potential A/B/C/BX/CX/- <sup>b)</sup>	Aquatic Toxicity D/E/F/G/- <sup>b)</sup>	
LUBIO® AW 15	4	4	4	4	4	4	75% A; 25% B	75% D; 25% E	-
LUBIO® EP 14	2	2	2	2	2	20	100% C	100% E	-
LUBIO® TF 1	100	20	20	100	20	100	90% A; 10% C*	100% D	-

**Notes:**

- a) The maximum treat rates of the listed components are only valid, if no other substance with the same or worse Blue Angel classification is used in the final product.
  - 2.1. • 1 Lubricants where lubricant loss occurs during their intended use. This includes those lubricants that primarily escape into the environment during their intended use e.g. point and rail lubricants and lubricants for open bearings, guides or sealing purposes (incl. stern tube greases).
  - 2.1. • 2-4 Lubricants where lubricant loss occurs during their intended use. This includes lubricants for the glass industry, concrete release agents used in formwork, and release agents used in asphalt paving work.
  - 2.2. Hydraulic fluids (pressure fluids), particularly in environmentally sensitive hydraulic systems and tractor transmission oils.
  - 2.3. Chain lubricants for motor saws.
  - 2.4. Gear lubricants for industrial use and shipping.
  - 2.5. Greases.
- b) (A) Readily biodegradable • (B) Inherently biodegradable • (C) Non-biodegradable • (X) Bioaccumulative • (D) Non-toxic • (E) Harmful • (F) Toxic • (G) Very toxic.

If you are looking for environmentally friendly additives for your application, do not hesitate to contact us. More detailed information about “Ecolabel” can also be found on our website. We would be pleased to register other products on the LuSC list or under appendix 1 of DE-UZ 178 for you when possible. Together with you we will find solutions – **Solutions that work.**