

## Lubricant Substance Classification list (LuSC-list)

**Version date: 23122019**

The list is a non-limitative list. Companies are not obliged to use one of these substances or brands but if used the information stated in this list can be applied directly into the application form without requesting the underlying documents. The list consists of two parts. Part 1 consists of substances and part 2 consists of brands. These are commercially available brands and are therefore indicated by their commercial name.

### **Part 1: Substances**

Substance	CAS no	EINECS no	EEL Biodegradation	EEL Aquatic Toxicity	Remarks
			A/B/C/X/- <sup>f</sup>	D/E/F/G(M <sup>g</sup> )/- <sup>f</sup>	
D-glucitol C6H14O6	50-70-4	200-061-5	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Ascorbic acid C6H8O6	50-81-7	200-066-2	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Glucose C6H12O6	50-99-7	200-075-1	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
L-lysine C6H14N2O2	56-87-1	200-294-2	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Sucrose, pure C12H22O11	57-50-1	200-334-9	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
$\alpha$ -tocopheryl acetate C31H52O3	58-95-7	200-405-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Galctose C6H12O6	59-23-4	200-416-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
DL-methionine C5H11NO2S	59-51-8	200-432-1	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Lactose C12H22O11	63-42-3	200-559-2	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
D-mannitol C6H14O6	69-65-8	200-711-8	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
L-sorbose C6H12O6	87-79-6	201-771-8	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Glycerol stearate, pure C21H42O4	123-94-4	204-664-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Carbon dioxide CO2	124-38-9	204-696-9	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Calcium pantothenate, D-form C9H17NO5.1/2Ca	137-08-6	205-278-9	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
DL-phenylalanine C9H11NO2	150-30-1	205-756-7	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Sodium gluconate C6H12O7.Na	527-07-1	208-407-7	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Sorbitan oleate C24H44O6	1338-43-8	215-665-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Calcium distearate, pure C18H36O2.1/2Ca	1592-23-0	216-472-8	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Lecithins The complex combination of diglycerides of fatty acids linked to the choline ester of phosphoric acid	8002-43-5	232-307-2	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Syrups, hydrolyzed starch A complex combination obtained by the hydrolysis of cornstarch by the action of acids or enzymes. It consists primarily of d-glucose, maltose and maltodextrins	8029-43-4	232-436-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Tallow, hydrogenated	8030-12-4	232-442-7	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Dextrin	9004-53-9	232-675-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Starch High-polymeric carbohydrate material usually derived from cereal grains such as corn, wheat and sorghum, and from roots and tubers such as potatoes and tapioca. Includes starch which has been pregelatinised by heating in the presence of water.	9005-25-8	232-679-6	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Maltodextrin	9050-36-6	232-940-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008

Sodium D-gluconate C <sub>6</sub> H <sub>12</sub> O <sub>7</sub> .xNa	14906-97-9	238-976-7	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
D-glucitol monostearate C <sub>24</sub> H <sub>48</sub> O <sub>7</sub>	26836-47-5	248-027-9	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Fatty acids, coco, Me esters	61788-59-8	262-988-1	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Cellulose Pulp	65996-61-4	265-995-8	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Glycerides, C16-18 and C18-unsatd. This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated trialkyl glyceride and SDA Reporting Number: 11-001-00.	67701-30-8	266-948-4	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Glycerides C10-18	85665-33-4	288-123-8	100%A	100%D	Organic substance listed in Annex I of Regulation 987/2008
Palmitic acid, pure C16H <sub>32</sub> O <sub>2</sub>	57-10-3	200-312-9	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Stearic acid, pure C18H <sub>36</sub> O <sub>2</sub>	57-11-4	200-313-4	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Oleic acid, pure C18H <sub>34</sub> O <sub>2</sub>	112-80-1	204-007-1	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Lauric acid, pure C12H <sub>24</sub> O <sub>2</sub>	143-07-7	205-582-1	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Potassium oleate C18H <sub>34</sub> O <sub>2</sub> K	143-18-0	205-590-5	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Sodium stearate, pure C18H <sub>36</sub> O <sub>2</sub> .Na	822-16-2	212-490-5	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Limestone A noncombustible solid characteristic of sedimentary rock. It consists primarily of calcium carbonate	1317-65-3	215-279-6	100%C	100%D	Inorganic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Sunflower oil Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, and oleic. ( <i>Helianthus annuus</i> , Compositae)	8001-21-6	232-273-9	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Soybean oil Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, palmitic and stearic ( <i>Soja hispida</i> , Leguminosae)	8001-22-7	232-274-4	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Safflower oil Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acid linoleic ( <i>Carthamus tinctorius</i> , Compositae)	8001-23-8	232-276-5	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Linseed oil Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, linolenic and oleic ( <i>Linum usitatissimum</i> , Linaceae)	8001-26-1	232-278-6	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Corn oil Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acids linoleic, oleic, palmitic and stearic ( <i>Zea mays</i> , Gramineae)	8001-30-7	232-281-2	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Castor Oil Extractives and their physically modified derivatives. It consists primarily of the glycerides of the fatty acid ricinoleic ( <i>Ricinus communis</i> , Euphorbiaceae)	8001-79-4	232-293-8	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Rape oil Extractives and their physically modified derivatives. It consists primarily of the glycerides of the	8002-13-9	232-299-0	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008

fatty acids erucic, linoleic and oleic (Brassica napus, Cruciferae)					
Fatty acids, tallow, Me esters	61788-61-2	262-989-7	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids, castor-oil	61789-44-4	263-060-9	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids, tallow	61790-37-2	263-129-3	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids, C12-18 This substance is identified by SDA Substance Name: C12-C18 alkyl carboxylic acid and SDA Reporting Number: 16-005-00.	67701-01-3	266-925-9	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids C16-18 This substance is identified by SDA Substance Name: C16-C18 alkyl carboxylic acid and SDA Reporting Number: 19-005-00.	67701-03-5	266-928-5	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids, C8-18 and C18-unsatd. This substance is identified by SDA Substance Name: C8-C18 and C18 unsaturated alkyl carboxylic acid and SDA Reporting Number: 01-005-00.	67701-05-7	266-929-0	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids, C14-18 and C16-18-unsatd. This substance is identified by SDA Substance Name: C14-C18 and C16-C18 unsaturated alkyl carboxylic acid and SDA Reporting Number: 04-005-00	67701-06-8	266-930-6	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids, C16-C18 and C18-unsatd. This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl carboxylic acid and SDA Reporting Number: 11-005-00	67701-08-0	266-932-7	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids C14-18 and C16-18-unsatd. Me esters This substance is identified by DA Substance Name: C14-C18 and C16-C18 unsaturated alkyl carboxylic acid methyl ester and SDA Reporting Number: 04-010-00.	67762-26-9	267-007-0	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids C6-12 This substance is identified by SDA Substance Name: C6-C12 alkyl carboxylic acid and SDA Reporting Number: 13-005-00.	67762-36-1	267-013-3	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids C14-22 and C16-22 unsatd. This substance is identified by SDA Substance Name: C14-C22 and C16-C22 unsaturated alkyl carboxylic acid and SDA Reporting Number: 07-005-00	68002-85-7	268-099-5	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Syrups corn dehydrated	68131-37-3	268-616-4	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids soya	68308-53-2	269-657-0	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Glycerides tallow mono- di- and tri- hydrogenated	68308-54-3	269-658-6	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids C14-22	68424-37-3	270-298-7	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids linseed-oil	68424-45-3	270-304-8	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008

Glycerides C16-18 and C18-unsatd. Mono- and di-This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl and C16-C18 and C18 unsaturated dialkyl glyceride and SDA Reporting Number: 11-002-00.	68424-61-3	270-312-1	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids C12-14	90990-10-6	292-771-7	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids C12-18 and C18-unsatd.	90990-15-1	292-776-4	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Fatty acids rape-oil erucic acid-low	93165-31-2	296-916-5	100%A	100%D	Organic substance removed from Annex IV to Annex V of Regulation 1907/2006 (REACH) by Regulation 987/2008
Lithium 12-hydroxystearate, pure, C19H38O3Li	7620-77-1	231-536-5	100%B	100%E	Assessed by the Dutch CB
Dilithium azelate, pure	38900-29-7	254-184-4	100%C	100%E	Assessed by the Dutch CB
Dilithium sebacate, pure	19370-86-6	242-999-8	100%C	100%E	Assessed by the Dutch CB
Calcium di-12-hydroxystearate, pure	3159-62-4	221-605-8	100%A	100%D	Assessed by the Dutch CB
Magnesium oxide, pure	1309-48-4	215-171-9	100%C	100%D	Assessed by the Dutch CB
Limestone (A noncombustible solid characteristic of sedimentary rock. It consists primarily of calcium carbonate.)	1317-65-3	215-279-6	100%C	100%D	Assessed by the Dutch CB
Tricalcium phosphate, pure	7758-87-4	231-840-8	100%C	100%D	Assessed by the Dutch CB
Calcium acetate, pure	62-54-4	200-540-9	100%C	100%D	Assessed by the Dutch CB
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	271-893-4	100%C	100%D	Assessed by the Dutch CB

## Part 2: Brands<sup>a</sup>

Brand name <sup>b</sup> Base fluids	Maximum allowed treat rate <sup>c</sup>						If less than 100% see <sup>d</sup> or <sup>e</sup>		Biobased fraction <sup>h,i</sup>	Fraction of PO/PKO <sup>h,j</sup>	CB Assessed	Valid till
	ALL (No Grease)	ALL (Only Grease)	PLL (No Grease)	PLL (Only Grease)	TLL (No Grease)	TLL (Only Grease)	EEL Biodegradation <sup>d</sup>	EEL Aquatic Toxicity <sup>e</sup>				
							A/B/C/X/ <sup>f</sup>	D/E/F/G(M <sup>®</sup> )/ <sup>f</sup>				
<b>Base fluids<sup>i</sup></b>												
NovaSpec EL34	Not limited by biodegradation and aquatic toxicity						100% A	100% D	53%		Dutch	31 December 2024
NovaSpec 1250	10%	20%	25%	20%	5.0%	20%	100% B	100% D	53%		Dutch	31 December 2024
Oxlupe L9-TMP	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
DOCADIT 10000 MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	91%	RSPO	Dutch	31 December 2024
DOCADIT 10010	Not limited by biodegradation and aquatic toxicity						100% A	100% D	92%		Dutch	31 December 2024
DOCADIT 3200 MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	87%	RSPO	Dutch	31 December 2024
DOCADIT 440 MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	90%	RSPO	Dutch	31 December 2024
DOCADIT 470	Not limited by biodegradation and aquatic toxicity						100% A	100% D	89%		Dutch	31 December 2024
DOCADIT 5000	Not limited by biodegradation and aquatic toxicity						100% A	100% D	93%		Dutch	31 December 2024
DOCADIT FL 136 MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	100%	RSPO	Dutch	31 December 2024
DOCADIT HV	5.2%	15%	21%	15%	5.2%	15%	3% A; 97% C	100% D	86%		Dutch	31 December 2024
DOCADIT LT-1582	Not limited by biodegradation and aquatic toxicity						100% A	100% D	19%		Dutch	31 December 2024
SOLDOC 3/134	Not limited by biodegradation and aquatic toxicity						100% A	100% D	92%		Dutch	31 December 2024
SOLDOC 4/136	Not limited by biodegradation and aquatic toxicity						100% A	100% D	95%		Dutch	31 December 2024
WAGLINOL 4/13680 MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	90%	RSPO	Dutch	31 December 2024
WAGLINOL 3/13480 MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	83%	RSPO	Dutch	31 December 2024
WAGLINOL 13088 F MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	61%	RSPO	Dutch	31 December 2024
WEICHOL 3/134A MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	88%	RSPO	Dutch	31 December 2024
WEICHOL 3/134A MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	88%	RSPO	Dutch	31 December 2024
LIGALUB 18 TMP A-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	91%	RSPO	Dutch	31 December 2024
LIGALUB 19 TMP-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	81%	RSPO	Dutch	31 December 2024
LIGALUB 56 PE-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	95%	RSPO	Dutch	31 December 2024
LIGALUB L 101-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	74%	RSPO	Dutch	31 December 2024
LIGALUB L 102-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	71%	RSPO	Dutch	31 December 2024
LIGALUB L 103 D/500-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	87%	RSPO	Dutch	31 December 2024
LIGALUB L 103 D-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	96%	RSPO	Dutch	31 December 2024
LIGALUB L 103-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	71%	RSPO	Dutch	31 December 2024
LIGALUB L 105-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	63%	RSPO	Dutch	31 December 2024
LIGALUB L 108 D-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	89%	RSPO	Dutch	31 December 2024
LIGALUB L 108-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	62%	RSPO	Dutch	31 December 2024
LIGALUB L 110-MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	85%	RSPO	Dutch	31 December 2024
Polyglykol B11/30	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
Hostaglass L4	Not limited by biodegradation and aquatic toxicity						100% A	100% D	<i>n.d.</i>		Dutch	31 December 2024
Matrilox LP101M	Not limited by biodegradation and aquatic toxicity						100% A	100% D	83%		Dutch	31 December 2024
Rodalube 118 /MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	<i>n.d.</i>	RSPO	Dutch	31 December 2024
Rodalube 60046 /MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	<i>n.d.</i>	RSPO	Dutch	31 December 2024
Rodalube 60046 M /MB	Not limited by biodegradation and aquatic toxicity						100% A	100% D	<i>n.d.</i>	RSPO	Dutch	31 December 2024





PALUB 8404	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
PALUB 8404P	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
PALUB 8406	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
PALUB 8416	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
PALUB 8407	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
PALUB ML-46S	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
PALUB ML-68S	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
PALUB ML-140S	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
PALUB ML-46U	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
PALUB ML-68U	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
PALUB ML-140U	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
Nycobase 3118 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
Nycobase 7300 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
Nycobase 8306 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	84%	76%NC	Dutch	31 December 2024
Nycobase 8311 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	83%	78%NC	Dutch	31 December 2024
Nycobase 8318S EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	88%	47%NC	Dutch	31 December 2024
Nycobase 8345 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	86%	70%NC	Dutch	31 December 2024
Nycobase 8397 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	50%	41%NC	Dutch	31 December 2024
Nycobase STM EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	91%		Dutch	31 December 2024
Nycobase 8103 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	83%	77%NC	Dutch	31 December 2024
Nycobase 8361 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	56%	48%NC	Dutch	31 December 2024
Nycobase 9300 EL	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
BT4	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
BT22	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
BT75	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
Lexolube® 3G-310	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
Lexolube® 3N-310	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
Lexolube® 3Q-310	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
Lexolube® 4N-415	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
Lexolube® B-109	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	RSPO	Dutch	31 December 2024
Lexolube® CG-3000	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.		Dutch	31 December 2024
Lexolube® CLG-460	Not limited by biodegradation and aquatic toxicity						100% A	100% D	77%		Dutch	31 December 2024
Lexolube® CQ-3000	10%	20%	25%	20%	5%	20%	100% B	100% D	66%		Dutch	31 December 2024
Lexolube® FG-22 HX1	100%	100%	100%	100%	83%	100%	94% A; 6% B	100% D	79%	RSPO	Dutch	31 December 2024
Hatcol 2937	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	77%NC	Dutch	31 December 2024
Hatcol 2938	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	77%NC	Dutch	31 December 2024
CalEster T	Not limited by biodegradation and aquatic toxicity						100% A	100% D	n.d.	79%NC	Dutch	31 December 2024
GEOlube® 50 A 20	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 50 A 32	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 50 A 46	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 50 A 50	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 50 A 68	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 50 A 75	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 50 A 100	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 50 A 140	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOlube® 60 W 150	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024



GEOLube® 60 W 220	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® 60 W 320	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® 60 W 460	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® 60 W 680	5.0%	15%	20%	15%	5.0%	15%	100% C	100% D	0%		Dutch	31 December 2024
GEOLube® 60 W 1000	5.0%	15%	20%	15%	5.0%	15%	100% C	100% D	0%		Dutch	31 December 2024
GEOLube® B 35	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 46	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 55	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 68	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 75	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 100	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 125	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 150	Not limited by biodegradation and aquatic toxicity						100% A	100% D	0%		Dutch	31 December 2024
GEOLube® B 225	5.0%	15%	20%	15%	5.0%	15%	100% C	100% D	0%		Dutch	31 December 2024
GEOLube® B 335	5.0%	15%	20%	15%	5.0%	15%	100% C	100% D	0%		Dutch	31 December 2024
DAKOLUB® MB 9001	Not limited by biodegradation and aquatic toxicity						100% A	100% D	97%		Dutch	31 December 2024
DAKOLUB® MB 9010	Not limited by biodegradation and aquatic toxicity						100% A	100% D	100%	37% NC	Dutch	31 December 2024
DAKOLUB® MB 9038	Not limited by biodegradation and aquatic toxicity						100% A	100% D	53%		Dutch	31 December 2024
DAKOLUB® MB 9040	Not limited by biodegradation and aquatic toxicity						100% A	100% D	100%	48% NC	Dutch	31 December 2024
DAKOLUB® MB 9206	Not limited by biodegradation and aquatic toxicity						100% A	100% D	91%		Dutch	31 December 2024
DAKOLUB® MB 9500	Not limited by biodegradation and aquatic toxicity						100% A	100% D	87%		Dutch	31 December 2024
DAKOLUB® MB 9600	Not limited by biodegradation and aquatic toxicity						100% A	100% D	90%		Dutch	31 December 2024

Brand name <sup>b</sup> Additives and Thickeners	Maximum allowed treat rate <sup>c</sup>						If less than 100% see <sup>d</sup> or <sup>e</sup>		Remark	CB Assessed	Valid till
	ALL (No Grease)	ALL (Only Grease)	PLL (No Grease)	PLL (Only Grease)	TLL (No Grease)	TLL (Only Grease)	EEL Biodegradation <sup>d</sup>	EEL Aquatic Toxicity <sup>e</sup>			
							A/B/C/X/ <sup>f</sup>	D/E/F/G(M <sup>g</sup> )/ <sup>f</sup>			
<b>Thickeners</b>											
Lubrizol® 75GR	5.0%	12%	12%	12%	5.0%	12%	100% C	100% D		Dutch	31 December 2024
DaeLim Synol 2000	5.0%	15%	20%	15%	5.0%	15%	100% C	100% D		Dutch	31 December 2024
Functional V-4051	-	45%	-	45%	-	45%	67% A; 33% C	100% D		Dutch	31 December 2024
Functional V-4051F	-	38%	-	38%	-	38%	60% A; 40% C	100% D		Dutch	31 December 2024
<b>Extreme Pressure + Anti-Wear</b>											
Additin RC 2317	5.0%	15%	10%	15%	2%	10%	100% C	100% E		Dutch	31 December 2024
Additin RC 2415	7.5%	16%	15%	16%	3.0%	15%	40% B; 60% C	36% D; 60% E		Dutch	31 December 2024
Additin RC 2515	7.0%	7.0%	7.0%	7.0%	6.3%	7.0%	20% C; 80% B	20% E; 73% D		Dutch	31 December 2024
Additin RC 2540	0.25%	0.25%	0.25%	0.25%	0.25%	0.25%	-	-(M=1)	Several chemicals with one at 40%	Dutch	31 December 2024

Additin RC 3760	2.5%	1.0%	0.60%	0.60%	0.40%	0.40%	100%C	100%F		Dutch	31 December 2024
Additin RC 3775	2.5%	1.3%	0.75%	0.75%	0.50%	0.50%	96%C	80%F; 20%E		Dutch	31 December 2024
Additin RC 5250	10%	20%	25%	20%	5.0%	20%	100%B	100%D		Dutch	31 December 2024
Additin RC 6340	5.0%	15%	20%	15%	5.0%	15%	100%C	100%D		Dutch	31 December 2024
Additin RC 8000	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	92%C	92%D		Dutch	31 December 2024
Additin RC 8012	Not limited by biodegradation and aquatic toxicity						100%A	100%D	Biobased fraction: <i>n.d.</i> Fraction of PO/PKO: 63%NC <sup>h,j</sup>	Dutch	31 December 2024
Additin RC 82.001	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	81%C	90%E		Dutch	31 December 2024
Additin RC 8210	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	80%C	100%E		Dutch	31 December 2024
Additin RC 8213	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	91%C	100%E		Dutch	31 December 2024
Irgalube 211	2.5%	1.0%	0.60%	0.60%	0.40%	0.40%	100%C	100%F		Dutch	31 December 2024
Irgalube 349	2.5%	1.0%	0.60%	0.60%	0.40%	0.40%	100%C	100%F		Dutch	31 December 2024
Irgalube 353	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	100%C	100%E	Limited by H317	Dutch	31 December 2024
Irgalube TPPT	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	-	100%D		Dutch	31 December 2024
KOMAD 503	-	5%	-	5%	-	5%	99%C	100%D		Dutch	31 December 2024
MC 222	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	60%C	100%E		Dutch	31 December 2024
MC TPPT	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	-	100%D		Dutch	31 December 2024
K-CORR® NF-400	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	91%C	100%E		Dutch	31 December 2024
KX1323	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	83%C	76%D		Dutch	31 December 2024
NA-LUBE® ADTC	5%	10%	10%	10%	5%	10%	99%C	100%D		Dutch	31 December 2024
NA-LUBE® AW-6330	1.1%	1.1%	1.1%	1.1%	1.1%	1.1%	99%C	100%D		Dutch	31 December 2024
NA-LUBE® BL 1232EL	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	77%C	78%D		Dutch	31 December 2024
VANLUBE® 289	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	90%A; 10%C	90%E; 10%D		Dutch	31 December 2024
VANLUBE® 972M	0.67%	0.67%	0.67%	0.67%	0.67%	0.67%	45%A; 40%C	45%D; 40%F		Dutch	31 December 2024
OCTOPOL MB	5.0%	15%	20%	15%	5.0%	15%	99%C	100%D		Dutch	31 December 2024
Desilube 88	3.3%	3.3%	3.3%	3.3%	3.3%	3.3%	100%C	30%D; 70%E		Dutch	31 December 2024
Desilube 98F	5.0%	10%	10%	10%	3.6%	10%	100%C	45%D; 55%E		Dutch	31 December 2024
Desilube 99EL	5.0%	5.0%	5.0%	5.0%	2.0%	5.0%	100%C	100%E		Dutch	31 December 2024
DeoAdd MRD 10	5.0%	15%	20%	15%	5.0%	15%	100%C	100%D	Biobased fraction: <i>n.d.</i>	Dutch	31 December 2024
DeoAdd MRD 16	10%	20%	25%	20%	5.0%	20%	100%B	100%D	Biobased fraction: <i>n.d.</i>	Dutch	31 December 2024
DeoAdd MRZ 16	10%	20%	25%	20%	5.0%	20%	100%B	100%D	Biobased fraction: <i>n.d.</i>	Dutch	31 December 2024
DeoAdd V 300	5.0%	10%	10%	10%	5.0%	10%	99%C	100%D		Dutch	31 December 2024
Deophos 228	0.10%	0.10%	0.10%	0.10%	0.10%	0.10%	100%A	100%G (M=1)		Dutch	31 December 2024
Addosan™ EPC 127	2.5%	1.0%	0.60%	0.60%	0.40%	0.40%	100%C	100%F		Dutch	31 December 2024
<b>Antioxidant</b>											
Naugalube 438 L	5.0%	10%	10%	10%	10%	10%	100%C	99%D; 1%G(M=1)		Dutch	31 December 2024
Naugalube 531	5.0%	15%	20%	15%	5.0%	15%	100%C	100%D		Dutch	31 December 2024
Naugalube 750	0.60%	0.60%	0.60%	0.60%	0.60%	0.60%	46%C	100%E		Dutch	31 December 2024
Additin RC 7001	4.5%	4.5%	4.5%	4.5%	2.0%	4.5%	94%C	100%E		Dutch	31 December 2024
Irganox L 06	5.0%	15%	20%	15%	5.0%	15%	100%C	100%D		Dutch	31 December 2024
Irganox L 57	0.50%	0.50%	0.50%	0.50%	0.50%	0.50%	46%C	100%E		Dutch	31 December 2024
Irganox L 64	0.62%	0.62%	0.62%	0.62%	0.62%	0.62%	57%C	20%D;80%E		Dutch	31 December 2024
Irganox L 67	5.0%	15%	20%	15%	5.0%	15%	100%C	100%D		Dutch	31 December 2024
Irganox L 101	5.0%	15%	20%	15%	5.0%	15%	100%C	100%D		Dutch	31 December 2024
Irganox L 107	5.0%	15%	20%	15%	5.0%	15%	100%C	100%D		Dutch	31 December 2024



Complete additive package											
Additin M93.001	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	88% C	87% D	Fraction of PO/PKO: 34%NC <sup>h,j</sup>	Dutch	31 December 2024
Additin M10.456	3.0%	1.3%	0.8%	0.8%	0.5%	0.5%	97% C	20% E; 80% F		Dutch	31 December 2024
Functional HF-595	2.2%	2.2%	2.2%	2.2%	2.2%	2.2%	80% C	78% E		Dutch	31 December 2024
Lubrizol® 5686EL	1.25%	1.25%	1.25%	1.25%	1.25%	1.25%	99% C	81% D; 17% E			
Irgapac H 811	2.5%	2.5%	2.5%	2.5%	1.7%	1.7%	80% C	69% E; 23% F			31 December 2024
Other (specified in the remark field)											
UCON OSP-32	Not limited by biodegradation and aquatic toxicity						100% A	100% D	Friction modifier and polarity enhancer	Dutch	31 December 2024
Additin RC 5010	10%	20%	10%	15%	2.0%	10%	100% A	100% E	Lubricity additive	Dutch	31 December 2024
Additin RC 8103	Not limited by biodegradation and aquatic toxicity						100% A	100% D	Lubricity additive	Dutch	31 December 2024
Irgamet TTZ	2.5%	1.0%	0.60%	0.60%	0.40%	0.40%	100% C	100% F	Metal deactivator	Dutch	31 December 2024
Irgafos 168	5.0%	15%	20%	15%	5.0%	15%	100% C	100% D	Secondary antioxidant	Dutch	31 December 2024
Tac Oil BA	55,5	100	100	100	55,5	100	91% A; 9% C	100% D	(Trackiness Agent)	Germany	31 December 2024
Adichem BA	55,5	100	100	100	55,5	100	91% A; 9% C	100% D	(Trackiness agent)	Germany	31 December 2024

- In case the data on the LuSC-list are different from that of its corresponding valid LoC, the valid LoC is binding.
- 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.
- 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.**
- 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  $0.60 - 0.48 = 0.12\%$ .
- 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  $0.60 - 0.48 = 0.12\%$ .
- 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.
- M = Multiplication factor for a substance that has an acute aquatic toxicity classified as very toxic (G).
- Related to Criterion 4 of the EU decision 2018/1702/EU.
- 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.
- The fraction of PO/PKO is indicated here. 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 therefore no PO/PKO is present. If stated e.g. *RPSO* it indicates that the company has stated that this is the complete fraction of Palm oil or Palm Kernel oil applied in the product AND that the company has a valid RSPO certificate at the time of application. If stated e.g. *50%NC (Not Certified)* it indicates that the company of the applicant 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 but the company cannot submit a valid RSPO certificate or any other relevant certificate.