

## Lubricant Substance Classification list (LuSC-list)

**Version date: 06022019**

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 |

|                                                                                                                                                                                                          |            |           |       |       |                                                                                                             |
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| 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   |

|                                                                                                                                                                                                            |            |           |       |       |                                                                                                           |
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| 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 |

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| 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%C | 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>             | 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 with a sustainability certificate <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 |
| Oxlupe L9-TMP                       | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 0%                               |                                                           | Dutch            | 31 December 2024 |
| WEICHOL 3/134W MB                   | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      | 86%RPSO                                                   | Dutch            | 31 December 2024 |
| WEICHOL 3/134A                      | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      |                                                           | Dutch            | 31 December 2024 |
| WAGLINOL 4/13680 MB                 | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      | 82.1%RPSO                                                 | Dutch            | 31 December 2024 |
| WAGLINOL 3/13480 MB                 | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      | 77.7%RPSO                                                 | Dutch            | 31 December 2024 |
| SOLDOC 4/136                        | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      |                                                           | Dutch            | 31 December 2024 |
| SOLDOC 3/134                        | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      |                                                           | Dutch            | 31 December 2024 |
| DOCADIT FL 136 MB                   | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      | 100%RPSO                                                  | Dutch            | 31 December 2024 |
| DOCADIT 10000 MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      | 50%RPSO                                                   | Dutch            | 31 December 2024 |
| DOCADIT 3200 MB                     | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      | 48%RPSO                                                   | Dutch            | 31 December 2024 |
| DOCADIT 470                         | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      |                                                           | Dutch            | 31 December 2024 |
| DOCADIT 5000                        | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      |                                                           | Dutch            | 31 December 2024 |
| DOCADIT 10010                       | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | <i>n.d.</i>                      |                                                           | Dutch            | 31 December 2024 |
| LIGALUB 18 TMP A-MB                 | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 91%                              | 86%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB 56 PE-MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 95%                              | 82%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 101-MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 74%                              | 58%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 103-MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 71%                              | 64%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 103 D-MB                  | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 96%                              | 60%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 103 D/500-MB              | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 87%                              | 59%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 110-MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 85%                              | 79%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 102-MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 71%                              | 67%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 105-MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 63%                              | 59%RPSO                                                   | Dutch            | 31 December 2024 |
| LIGALUB L 108-MB                    | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 62%                              | 60%RPSO                                                   | Dutch            | 31 December 2024 |
| Polyglykol B11/30                   | Not limited by biodegradation and aquatic toxicity |                   |                 |                   |                 |                   | 100% A                                                    | 100% D                                 | 0%                               |                                                           | Dutch            | 31 December 2024 |
| Hostagloss 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 |
|                                     |                                                    |                   |                 |                   |                 |                   |                                                           |                                        |                                  |                                                           |                  |                  |
|                                     | <b>Maximum allowed treat rate<sup>c</sup></b>      |                   |                 |                   |                 |                   | <b>If less than 100% see <sup>d</sup> or <sup>e</sup></b> |                                        |                                  |                                                           |                  |                  |
| Brand name <sup>b</sup>             | 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>      | Remark                           | CB Assessed                                               | Valid till       |                  |
|                                     |                                                    |                   |                 |                   |                 |                   | A/B/C/X/ <sup>f</sup>                                     | D/E/F/G(M <sup>®</sup> )/ <sup>f</sup> |                                  |                                                           |                  |                  |
| <b>Thickeners</b>                   |                                                    |                   |                 |                   |                 |                   |                                                           |                                        |                                  |                                                           |                  |                  |
| Lubrizol® 75GR                      | 5.0%                                               | 15%               | 20%             | 15%               | 5.0%            | 15%               | 100% 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 3890             | 1.0%  | 1.0%  | 1.0%  | 1.0%  | 1.0%  | 1.0%  | 100%C      | 100%D          | Limited by H317                   | Dutch | 31 December 2024 |
| Additin RC 5210             | 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 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 |
| <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 |
| Irganox L 06                | 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 135               | 4.0%  | 4.0%  | 4.0%  | 4.0%  | 4.0%  | 4.0%  | 96%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 |
| 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 115               | 5.0%  | 15%   | 20%   | 15%   | 5.0%  | 15%   | 100%C      | 100%D          |                                   | Dutch | 31 December 2024 |
| SONGNOX® L107               | 5.0%  | 15%   | 20%   | 15%   | 5.0%  | 15%   | 100%C      | 100%D          |                                   | Dutch | 31 December 2024 |
| SONGNOX® L115               | 5.0%  | 15%   | 20%   | 15%   | 5.0%  | 15%   | 100%C      | 100%D          |                                   | Dutch | 31 December 2024 |
| SONGNOX® L135               | 4.0%  | 4.0%  | 4.0%  | 4.0%  | 4.0%  | 4.0%  | 97%C       | 100%D          |                                   | Dutch | 31 December 2024 |
| SONGNOX® L570               | 0.50% | 0.50% | 0.50% | 0.50% | 0.50% | 0.50% | 44%C       | 100%E          |                                   | Dutch | 31 December 2024 |
| SONGNOX® L670               | 5%    | 10%   | 10%   | 10%   | 5%    | 10%   | 99%C       | 100%D          |                                   | Dutch | 31 December 2024 |
| <b>Corrosion Inhibitor</b>  |       |       |       |       |       |       |            |                |                                   |       |                  |
| Additin RC 4801             | 0.32% | 0.32% | 0.32% | 0.32% | 0.32% | 0.32% | 65%C       | 70%E; 30%D     |                                   | Dutch | 31 December 2024 |
| Additin RC 8221             | 2.5%  | 1.0%  | 0.6%  | 0.6%  | 0.4%  | 0.4%  | 100%C      | 100%F          |                                   | Dutch | 31 December 2024 |
| Additin RC 8239             | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% | 100%C      | 100%G (M=1)    |                                   | Dutch | 31 December 2024 |
| Additin RC 4810             | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 0.93% | 80%C       | 80%D           |                                   | Dutch | 31 December 2024 |
| Sarkosyl O                  | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% | 0.10% | -          | -(M=1)         |                                   | Dutch | 31 December 2024 |
| Irgacor L 12                | 0.80% | 0.80% | 0.80% | 0.80% | 0.80% | 0.80% | 80%C       | 75%D; 25%E     |                                   | Dutch | 31 December 2024 |
| <b>Detergent/Emulsifier</b> |       |       |       |       |       |       |            |                |                                   |       |                  |
| Emulsogen MTP 070           | 2.5%  | 1.0%  | 0.60% | 0.60% | 0.40% | 0.40% | 100%A      | 100%F          | 31%RPSO <sup>1</sup>              | Dutch | 31 December 2024 |

| Viscosity modifier/Pour Point depressant/Viscosity Improvers |                                                    |      |       |       |       |       |        |        |                                         |       |                  |  |
|--------------------------------------------------------------|----------------------------------------------------|------|-------|-------|-------|-------|--------|--------|-----------------------------------------|-------|------------------|--|
| Antifoam/Demulsifier/Dispersant                              |                                                    |      |       |       |       |       |        |        |                                         |       |                  |  |
| Complete additive package                                    |                                                    |      |       |       |       |       |        |        |                                         |       |                  |  |
| 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 |  |
| Isofol 16                                                    | 5%                                                 | -    | -     | -     | -     | -     | 100% A | 100% D | Minimum Quantity Lubricant              | Dutch | 31 December 2024 |  |
| Isofol 18T                                                   | 5%                                                 | -    | -     | -     | -     | -     | 100% A | 100% D | Minimum Quantity Lubricant              | Dutch | 31 December 2024 |  |
| Isofol 20                                                    | 5%                                                 | -    | -     | -     | -     | -     | 100% A | 100% D | Minimum Quantity Lubricant              | 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 |  |

- 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 mass-based fraction and the sustainability scheme is stated e.g. *50%RPSO*. 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 is certified according to one of the RPSO schemes. 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.