

Regulatory Data Sheet

Alkatuff® LL425, LL501, LL525, LL601, LL755 and LL820

**Alkatane® GE4760, GF7660, GF7660-1, GF7667, GF7740F2, GF7740F2-1,
GM4755F, GM7655, HD0195F, HD0195F-1, HD0390, HD0490, HD0690,
HD0790, HD1090, HD2090 and HD3690**

Alkadyne® HDF193N and HCR193N

FOOD CONTACT COMPLIANCE

If this product is used for food contact applications, then the user needs to ensure compliance with the requirements of relevant food contact regulations. When used in accordance with US Food and Drug Administration (FDA) application guidelines, this product meets the requirements of FDA 21 CFR 177.1520 (c) 3.1a. This product should not be used in applications for holding food during cooking without the required compliance testing. This information is only for the application described on the Technical Data Sheet. For alternative applications please contact your primary Qenos representative.

The composition of this product complies with the requirements of Commission Regulation (EU) No 10/2011, including any subsequent amendments that are in force prior to the effective date of this Regulatory Data Sheet. Migration limits and other restrictions may apply. Please contact your primary Qenos representative if a declaration of compliance or further information is required.

It is the responsibility of the manufacturer of the finished food contact article, as well as the industrial food packer, to ensure the composition of the food and its organoleptic properties are not altered by the final article.

BOVINE SPONGIFORM ENCEPHALOPATHY (BSE) AND TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHY (TSE)

Qenos confirms that all raw materials and additives used in the manufacture of this product have been derived only from inorganic, synthetic and / or vegetable based feedstock.

HALAL AND KOSHER

Qenos is unable to make specific claims regarding the Halal and Kosher suitability of its products. However, Qenos confirms that all raw materials and additives used in the manufacture and formulation of this product have only been derived from inorganic, synthetic and / or vegetable based substances.

HAZARD ANALYSIS CRITICAL CONTROL POINTS (HACCP)

Qenos produces polyethylene which is subsequently converted by its customers into a variety of products, including food packaging applications. As Qenos is not a direct manufacturer of food contact packaging, Qenos does not operate a certified HACCP system. Qenos' manufacturing practices in relation to polyethylene intended for food contact applications are designed to comply with the requirements of Standard 1.1.1-10 (subsections 10 & 11) of the FSANZ Food Standards Code "Requirements relating to food for sale – Packaging requirements". Qenos will assist customers in relation to HACCP certification by facilitating customer audits of its food contact and product quality management systems.

NON-ADDED SUBSTANCES

Substances listed in Appendix 1 are not intentionally used in the manufacture of this product. Qenos has in place quality assurance systems to reasonably ensure that these substances are not inadvertently added. However, these substances are not routinely tested for.



APPENDIX 1: NON-ADDED SUBSTANCES

| Substance | CAS Number |
|--|------------|
| Adipates | |
| Bis(2-ethylhexyl) adipate (DEHA) | 103-23-1 |
| Dibutyl adipate | 105-99-7 |
| Diethyl adipate | 141-28-6 |
| Ethyl hydrogen adipate | 626-86-8 |
| Dioctyl adipate (DOA) | 123-79-5 |
| Dimethyl adipate | 627-93-0 |
| | |
| Allergens | |
| Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof | |
| Crustaceans and products thereof | |
| Eggs and products thereof | |
| Fish and products thereof | |
| Peanuts and products thereof | |
| Soybeans and products thereof | |
| Milk and products thereof (including lactose) | |
| Tree nuts and products thereof | |
| Celery and products thereof | |
| Mustard and products thereof | |
| Sesame seeds and products thereof | |
| Sulphur dioxide and sulphites | |
| Lupin and products thereof | |
| Molluscs and products thereof | |
| | |
| Bisphenol | |
| Bisphenol A (BPA) | 80-05-7 |
| Bisphenol S (BPS) | 80-09-1 |
| | |
| Butylated hydroxytoluene (BHT) | 128-37-0 |
| | |
| Conflict minerals | |
| Tin | 7440-31-5 |
| Tantalum | 7440-25-7 |
| Tungsten | 7440-33-7 |
| Gold | 7440-57-5 |
| Columbite-tantalite (coltan) | |
| Cassiterite | |
| Wolframite | 1332-08-7 |

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| Substance | CAS Number |
|---|-------------|
| Degradable additives¹ | |
| Epoxy Derivatives | |
| Bis(hydroxyphenyl)methane bis(2,3-epoxypropyl) ether (BFDGE) | 39817-09-9 |
| Novolac glycidyl ethers (NOGE) | |
| 2,2-bis(4-hydroxyphenyl) propane bis(2,3-epoxypropyl) ether (BADGE) | 1675-54-3 |
| 2,2-bis(4-hydroxyphenyl) propane (2,3-dihydroxypropyl) glycidyl ether (BADGE.H2O) | 76002-91-0 |
| 2,2-bis(4-hydroxyphenyl) propane bis(2,3-dihydroxypropyl) ether (BADGE.2H2O) | 5581-32-8 |
| 2,2-bis(4-hydroxyphenyl) propane (3-chloro-2-hydroxypropyl) glycidyl ether (BADGE.HCL) | 13836-48-1 |
| 2,2-bis(4-hydroxyphenyl) propane bis(3-chloro-2-hydroxypropyl) ether (BADGE.2HCL) | 4809-35-2 |
| 2,2-bis(4-hydroxyphenyl) propane (3-chloro-2-hydroxypropyl) 2,3-dihydroxypropyl ether (BADGE.H2O.HCL) | 227947-06-0 |
| Heavy Metals | |
| Refer to Restriction of Hazardous Substances (RoHS) section for details | |
| Melamine | 108-78-1 |
| Mineral oil² | |
| Nanomaterials³ | |
| Natural rubber or latex | 9006-04-6 |
| Nitrosamines | |
| Phosphites | |
| 4-nonylphenol (4NP) | 25154-52-3 |
| Tris(nonylphenyl) phosphite (TNPP) | 26523-78-4 |
| Per and polyfluoroalkyl substances (PFAS) | |

¹ For the purpose of this data sheet, degradable additives, including oxo-additives, are defined as additives used to intentionally accelerate the fragmentation of plastic material into smaller pieces. The degradation is often triggered by ultraviolet radiation or heat exposure.

² Mineral oil is defined as a light fraction liquid oil derived from a natural source, but specifically not synthetic oils. Mineral oil solvents, mineral oil saturated hydrocarbons (MOSH) and mineral oil aromatic hydrocarbons (MOAH) are not intentionally added to Qenos products. However, mineral oil is used within the polyethylene manufacturing process, examples of which include use in mechanical seals and equipment lubrication. Trace levels may be present.

³ Nanomaterials, as defined by European Commission Recommendation 2011/696/EU.

APPENDIX 1: NON-ADDED SUBSTANCES

| Substance | CAS Number |
|--|-------------------------|
| Phthalates | |
| Di-2-ethylhexyl phthalate (DEHP) | 117-81-7 |
| Di-n-octyl phthalate (DNOP) | 117-84-0 |
| Benzyl butyl phthalate (BBP) | 85-68-7 |
| Diisodecyl phthalate (DIDP) | 26761-40-0 / 68515-49-1 |
| Diisobutyl phthalate (DIBP) | 84-69-5 |
| Diisononyl phthalate (DINP) | 28553-12-0 / 68515-48-0 |
| Diethyl phthalate (DEP) | 84-66-2 |
| Dibutyl phthalate (DBP) | 84-74-2 |
| Dimethoxyethyl phthalate (DMEP) | 117-82-8 |
| Bis(2-butoxyethyl) phthalate (BBEP) | 117-83-9 |
| Diisohexyl phthalate | 71850-09-4 / 146-50-9 |
| Dipentyl phthalate | 131-18-0 |
| Dihexyl phthalate (DHP) | 84-75-3 |
| Dinonyl phthalate (DNP) | 84-76-4 |
| Diphenyl phthalate | 84-62-8 |
| Dimethyl phthalate (DMP) | 131-11-3 |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 |
| Dipropyl phthalate | 131-16-8 |
| Diisooctyl phthalate (DIOP) | 27554-26-3 |
| Dimethylcyclohexyl phthalate (DMCHP) | 27987-25-3 |
| Diallyl phthalate | 131-17-9 |
| Recycled Plastic Material⁴ | |

⁴. Recycled plastic or recycled plastic materials and articles, as defined by the scope of Commission Regulation (EU) 2022/1616.

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| Substance | CAS Number |
|---|------------|
| Restriction of Hazardous Substances (RoHS)⁵ | |
| Lead | |
| Mercury | |
| Cadmium | |
| Hexavalent chromium | |
| Polybrominated biphenyls (PBB) | |
| Polybrominated diphenyl ethers (PBDE) | |
| Di-2-ethylhexyl phthalate (DEHP) | 117-81-7 |
| Benzyl butyl phthalate (BBP) | 85-68-7 |
| Dibutyl phthalate (DBP) | 84-74-2 |
| Diisobutyl phthalate (DIBP) | 84-69-5 |
| | |
| Substances of Very High Concern (REACH)⁶ | |

⁵. RoHS substances defined per European Commission Delegated Directive (EU) 2015/863.

⁶. Substances of Very High Concern (SVHC), as defined in Article 57 of Regulation (EC) 1907/2006 ("The REACH Legislation") and listed on the Candidate List for inclusion to Annex XIV or Annex XIV itself (as of the effective date of this Regulatory Data Sheet). For further information regarding REACH please contact your primary Qenos representative.

In using Qenos Pty Ltd's products, you must establish for yourself the most suitable formulation, production method and control tests, to ensure the uniformity and quality of your product in compliance with all laws. You should ensure that you have conducted your own investigations before making any representations as to your product's compliance with any regulatory standards. No warranty is given in relation to the information contained in this document.

The information contained in this document is current and valid as of the effective date of this statement and replaces and supersedes all previous statements relating to the subject matter prior to the effective date. For up to date information, refer to www.qenos.com.