

Regulatory Data Sheet

Alkathene® LDF433 and LDF433X

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) 2.1. This statement only applies for finished articles up to a thickness of 170 microns. For films, or other applications, of greater thickness, please contact your primary Qenos representative to discuss further. 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 you require a declaration of compliance or further information.

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.

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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	7439-92-1
Mercury	7439-97-6
Cadmium	7440-43-9
Hexavalent chromium	18540-29-9
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.