

Regulatory Data Sheet

GRADES:

- Alkadyne[®] - HDF193B and HCR193B.

- Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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) are not intentionally used in the manufacture of Qenos polyethylene grades. However, these substances are not routinely tested for. For further information regarding REACH please contact your primary Qenos representative.

- Adipates

Adipates, including those listed below, are not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos has in place quality assurance systems to reasonably ensure that adipates are not inadvertently added. However, these substances are not routinely tested for.

- Bis(2-ethylhexyl) adipate (DEHA) (CAS number 103-23-1)
- Dibutyl adipate (CAS number 105-99-7)
- Diethyl adipate (CAS number 141-28-6)
- Ethyl hydrogen adipate (CAS number 626-86-8)
- Dioctyl adipate (DOA) (CAS number 123-79-5)
- Dimethyl adipate (CAS number 627-93-0)

- Allergens

The following substances are not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos has in place quality assurance systems to reasonably ensure that allergenic substances are not inadvertently added. However, these substances are not routinely tested for.

- 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 A (BPA) and Bisphenol S (BPS)*

Bisphenol A (CAS number 80-05-7) and Bisphenol S (CAS number 80-09-1) are not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos has in place quality assurance systems to ensure that BPA or BPS are not inadvertently added. However, BPA and BPS are not routinely tested for.

- *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.

- *Butylated hydroxytoluene (BHT)*

Butylated hydroxytoluene (CAS number 128-37-0) is not intentionally used in the manufacture of any Qenos polyethylene grades. However, BHT is not routinely tested for.

- Conflict minerals

Tin (CAS number 7440-31-5), tantalum (CAS number 7440-25-7), tungsten (CAS number 7440-33-7), gold (CAS number 7440-57-5), columbite-tantalite (coltan), cassiterite and wolframite (CAS number 1332-08-7) are not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos also has in place quality assurance systems to reasonably ensure that conflict minerals are not inadvertently added. However, these substances are not routinely tested for.

- Degradable additives

For the purpose of this data sheet, degradable 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. Degradable additives, including oxo-degradable additives, are not intentionally used, in the manufacture of any Qenos polyethylene grades. Qenos also has in place quality assurance systems to reasonably ensure that degradable additives are not inadvertently added. However, these substances are not routinely tested for.

- Epoxy Derivatives

The following epoxy derivatives are not intentionally used in the manufacture of any Qenos polyethylene grades. 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.

- Bis(hydroxyphenyl)methane bis(2,3-epoxypropyl) ether (BFDGE) (CAS No. 39817-09-9)
- Novolac glycidyl ethers (NOGE)
- 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether (BADGE) (CAS No. 1675-54-3) and some of its derivatives:
 - 2,2-bis(4-hydroxyphenyl)propane (2,3-dihydroxypropyl) glycidyl ether (BADGE.H₂O) (CAS No. 76002-91-0)
 - 2,2-bis(4-hydroxyphenyl)propane bis(2,3-dihydroxypropyl) ether (BADGE.2H₂O) (CAS No. 5581-32-8)
 - 2,2-bis(4-hydroxyphenyl)propane (3-chloro-2-hydroxypropyl) glycidyl ether (BADGE.HCL) (CAS No. 13836-48-1).
 - 2,2-bis(4-hydroxyphenyl)propane bis(3-chloro-2-hydroxypropyl) ether (BADGE.2HCl) (CAS No. 4809-35-2)
 - 2,2-bis(4-hydroxyphenyl)propane (3-chloro-2-hydroxypropyl) 2,3-dihydroxypropyl ether (BADGE.H₂O.HCL) (CAS No. 227947-06-0)

- 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.

- Heavy metals and Restriction of Hazardous Substances (RoHS)

This product is not manufactured to intentionally include lead (CAS number 7439-92-1), mercury (CAS number 7439-97-6), cadmium (CAS number 7440-43-9), hexavalent chromium (CAS number 18540-29-9), polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), di-2-ethylhexyl phthalate (DEHP, CAS number 117-81-7), benzyl butyl phthalate (BBP, CAS number 85-68-7), dibutyl phthalate (DBP, CAS number 84-74-2) and diisobutyl phthalate (DIBP, CAS number 84-69-5). Qenos also has in place quality assurance systems to reasonably ensure that heavy metals and substances stated in the RoHS list are not inadvertently added. However, these substances are not routinely tested for.

- Melamine

Melamine (CAS number 108-78-1) is not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos has in place quality assurance systems to reasonably ensure that melamine is not inadvertently added. However, melamine is not routinely tested for.

- Natural Rubber or Latex

Natural rubber or latex (CAS number 9006-04-6) is not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos also has in place quality assurance systems to reasonably ensure that natural latex or rubber is not inadvertently added. However, natural rubber and latex are not routinely tested for.

- 4-nonylphenol (4NP) and Tris(nonylphenyl) phosphite (TNPP)

4-nonylphenol (4NP) (CAS number 25154-52-3) and tris(nonylphenyl) phosphite (TNPP) (CAS number 26523-78-4) are not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos has in place quality assurance systems to reasonably ensure that 4NP and TNPP are not inadvertently added. However, 4NP and TNPP are not routinely tested for.

- Per- and polyfluoroalkyl substances (PFAS)

Per- and polyfluoroalkyl substances (PFAS) are not intentionally used in the manufacture of the above Qenos polyethylene grades. Qenos has in place quality assurance systems to reasonably ensure that PFAS are not inadvertently added. However, these substances are not routinely tested for.

- Phthalates

Phthalates, including those listed below, are not intentionally used in the manufacture of any Qenos polyethylene grades. Qenos has in place quality assurance systems to reasonably ensure that phthalates are not inadvertently added. However, these substances are not routinely tested for.

Phthalate	CAS No.
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 Material

Qenos confirms that recycled plastic or recycled plastic materials and articles as covered by the scope of Commission Regulation (EU) 2022/1616 are not used in the manufacture of Qenos polyethylene grades. Qenos has in place quality assurance systems to reasonably ensure that recycled plastic materials are not inadvertently added.

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.