

DBE®-4 ester: Information Sheet

DBE®-4 ester Conflict Minerals Statement:

Based on our knowledge we advise you that INVISTA does not intentionally include the chemicals identified in your inquiry (see below list) in the manufacture of DBE®-4 ester.

Gold
Cassiterite
Wolframite
Columbite-tantalite
Tin
Tungsten
Tantalum

Please note, however, that INVISTA does not analyze DBE®-4 ester for the chemicals identified in your inquiry.

DBE®-4 ester Global Inventory Statement:

Be advised that the components of DBE®-4 ester are listed on the following global inventories:

Australia (AICS)
Canada (DSL)
China (IECSC)
EU (EINECS)
Japan (ENCS)
Korea (KECI)
New Zealand
Philippines (PICCS)
USA (TSCA) (Active)
Taiwan (TCSI)

DBE®-4 ester ISO Certificate:

DBE®-4 ester ISO Certificate is available upon request.

DBE®-4 ester Restricted Substances:

Based on our knowledge, we advise you that INVISTA does not include as an intentional additive or ingredient the materials identified in your inquiry (see below list) in the manufacture of DBE®-4 ester.

Acetic Anhydride
N-Acetylanthranilic Acid
Ephedrine
Ergometrine
Ergotamine
Isosafrole
Lysergic Acid
3,4-Methylenedioxyphenyl-2-Propanone

Norephedrine
1-Phenyl-2-Propanone
Piperonal
Potassium Permanganate
Pseudoephedrine
Safrole
Acetone
Anthranilic Acid
Ethyl Ether
Hydrochloric Acid
Methyl Ethyl Ketone
Phenylacetic Acid
Piperidine
Toluene
Thionyl Chloride
Cadmium and its compounds
Hexavalent chromium compounds
Lead and its compounds
Mercury and its compounds
Beryllium and its compounds
Arsenic and its compounds
Nickel and its compounds
Bis(tributyl tin) oxide (TBTO)
Tributyl tin compounds (TBT), Triphenyl tin compounds
Dibutyl tin compounds (DBT)
Dioctyl tin compounds (DOT)
Poly bromide bi-phenyl (PBB)
Poly bromide di-phenyl ether (PBDE)
Poly chloride bi-phenyl
Poly chloride ter-phenyl
Poly chloride naphthalenes
Hexa bromo cyclododecane
Tris (2-chloroethyl) phosphate
Perchlorate compounds (per chloride acid)
Chlorinated paraffin
HFCs, PFCs, SF6
Asbestos
Azo dyes and pigments
Ozone layer depleting substances
Radioactivity substances
Perfluoro-octanoic acid (PFOA)
Perfluoro-octyl sulphonates (PFOS) and its salts
Perfluorinated alkyl sulfonates (PFAS), Perfluorinated Carboxylic acid (PFCA)
Benzo triazole
Formaldehyde
Phthalate ester
Anthracene
4,4'-diamino di-phenyl methane
Chlorinated cobalt
1-tert-butyl-3,5-di-methyl-2,4,6-tri-nitrobenzene
Dimethyl fumarate
Triethylenediamine
Naphthalene

tri-butyl amine
ethyl benzene
Paraben
Isothiazolinone(s)
Dibutyl, dioctyl, or or Di-ethyl-2-hexyl phthalates
PEG-7 GLYCERYL COCOATE
PEG-Derivates (Polyethylene Glycol Derivates)
Mink Oil

Please note however, that INVISTA does not analyze DBE[®]-4 ester for the materials identified in your inquiry on a routine basis.

DBE[®]-4 ester RoHS Statement:

This note concerns compliance with European Directive 2015/863/EU as amended (RoHS Directive). This directive places restrictions on the maximum concentration of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), polybrominated diphenylethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) in electrical and electronic equipment.

Link: http://ec.europa.eu/environment/waste/rohs_eee/legis_en.htm

Cadmium (Cd)
Mercury
Lead (Pb)
Hexavalent chromium (Cr6+)
Polybrominated biphenyls (PBB)
Polybrominated diphenyl ethers (PBDE)
Bis(2-Ethylhexyl) phthalate (DEHP)
Benzyl butyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

We advise you that INVISTA does not include as an intentional additive or ingredient in DBE[®] esters and its fractions the chemicals identified above the levels indicated in the RoHS Directive.

DBE[®]-4 ester Shelf-life Statement:

An approximate shelf life of DBE[®]-4 ester is 2 years, if the product is stored in the original container, kept tightly closed and dry, in a well-ventilated location. Because storage and local ambient conditions vary and INVISTA has no control over the practices, procedures and conditions at your or other locations, the shelf life estimate provided here should be used as guidance only. It is not provided as a guarantee of any shelf life.

DBE[®]-4 ester Source Statement:

We advise you that INVISTA's DBE[®]-4 ester made in the U.S. is manufactured from petrochemical-based feedstocks. However, a support material of synthetic and vegetable origin is used upstream in the manufacturing process of DBE[®]-4 ester.

DBE®-4 ester SVHC Statement:

Based on our knowledge, we advise you, that DBE® esters and its fractions are not listed as a SVHC substances on the EU Candidate List of Substances of Very High Concern (as updated on 26 June 2020 <https://echa.europa.eu/candidate-list-table>). INVISTA does not include as an intentional additive or ingredient any SVHC substances in the manufacture of DBE® esters and its fractions.

Please note however, that INVISTA does not analyze DBE® esters and its fractions for SVHC substances on a routine basis with the exception of dimethyl sulfate (CAS# 77-78-1) which is present as an impurity and is monitored.

This document contains selected information about a specific INVISTA product and is provided to you for your informational purposes only. This document and its contents may not be reproduced, distributed or disclosed by you to any third party for any purpose. It relates only to the identified product and is based on information available as of the date hereof. INVISTA does not have any obligation to notify you if the above information should change after the date hereof. Additional information may be needed to evaluate uses of the product, including use of the product in combination with any materials or in any processes. **THIS DOCUMENT DOES NOT CONTAIN A COMPLETE STATEMENT OF, AND DOES NOT CONSTITUTE A REPRESENTATION, WARRANTY OR GUARANTY WITH REGARD TO, A PRODUCT'S CHARACTERISTICS, USES, SUITABILITY, SAFETY, EFFICACY, HAZARDS OR HEALTH EFFECTS.** Purchasers and users of the product are responsible for determining that the product is suitable for the intended use and that their workers and the general public are advised of any risks resulting from such use. Nothing contained in this document shall be construed to modify any of the commercial terms pursuant to which the product was or may be sold by INVISTA including, but not limited to, terms and conditions addressing each party's respective rights and obligations with regard to warranties, remedies and indemnification.