

## FlexiSolv® DBE®-4 ester: Information Sheet

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### **FlexiSolv® 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 FlexiSolv® DBE®-4 ester.

Gold  
Cassiterite  
Wolframite  
Columbite-tantalite  
Tin  
Tungsten  
Tantalum

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

### **FlexiSolv® DBE®-4 ester Global Inventory Statement:**

Be advised that the components of FlexiSolv® 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)  
Taiwan (TCSI)

### **FlexiSolv® DBE®-4 ester ISO Certificate:**

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

### **FlexiSolv® 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 FlexiSolv® 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 Di-ethyl-2-hexyl phthalates  
PEG-7 GLYCERYL COCOATE  
PEG-Derivates (Polyethylene Glycol Derivates)  
Mink Oil

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

**FlexiSolv® 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](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 FlexiSolv® DBE® esters and its fractions the chemicals identified above the levels indicated in the RoHS Directive.

**FlexiSolv® DBE®-4 ester Shelf-life Statement:**

An approximate shelf life of FlexiSolv® 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.

**FlexiSolv® DBE®-4 ester Source Statement:**

We advise you that INVISTA's FlexiSolv® DBE®-4 ester made in the U.S. is manufactured from petrochemical-based feed stocks. However, a support material of animal origin and vegetable origin, specifically a product that contains bovine tallow derivatives and corn, is used upstream in the manufacturing process of FlexiSolv® DBE®-4 ester.

**FlexiSolv® DBE®-4 ester SVHC Statement:**

Based on our knowledge, we advise you, that FlexiSolv® 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 16 July 2019 <https://echa.europa.eu/candidate-list-table>). INVISTA does not include as an intentional additive or ingredient any SVHC substances in the manufacture of FlexiSolv® DBE® esters and its fractions.

Please note however, that INVISTA does not analyze FlexiSolv® 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.

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