

## FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters: Information Sheet

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### **FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters Conflict Minerals Statement:**

Based on our knowledge we advise you that INVISTA does not intentionally include the chemicals identified in your inquiry (see list below) in the manufacture of FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters.

Gold  
Cassiterite  
Wolframite  
Columbite-tantalite  
Tin  
Tungsten  
Tantalum

Please note, however, that INVISTA does not analyze FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters for the chemicals identified in your inquiry.

### **FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters Global Inventory Status:**

Be advised that the components of FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters 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 (NECSI)

### **FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters ISO Certificate:**

FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters ISO Certificate is available upon request.

### **FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters 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 list below) in the manufacture of FlexiSolv<sup>®</sup> DBE<sup>®</sup> esters except for methanol.

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  
Methyl Isobutyl Ketone  
Phenylacetic Acid  
Piperidine  
Sulfuric Acid  
Toluene  
Thionyl Chloride  
Cadmium and its compounds  
Hexavalent chromium compounds  
Lead and its compounds  
Mercury and its compounds  
Endocrine Disruptor (substances which will receive the overall  
assessment Cat 1 or Cat 2 in EU's – EDS Database.1)  
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  
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

Phthalates:  
Dibutyl phthalate  
Dimethyl phthalate  
Diethyl phthalate  
Diethylhexylphthalate  
Antimony  
Barium  
Copper  
Manganese  
Molybdenum  
Selenium  
Silver  
Thallium  
Tin  
Vanadium  
Zinc  
Mineral Oil

*Glycol ethers*  
Diethylene glycol  
Ethoxydiglycol  
Butoxydiglycol  
Butoxyethanol  
Nitrosamines  
Free amines  
Amidoamines  
Acrylamides  
EU Designated CMR (List)  
Residual monomers: Please specify identity and EINECS N°  
Sulfites as SO<sub>2</sub>  
Acetone  
1,4-dioxane  
Ethylene oxide  
Latex  
Asbestos  
PEG-7 GLYCERYL COCOATE  
PEG-Derivates (Polyethylene Glycol Derivates)  
Mink Oil

Allergens (milk, eggs, wheat, soy, crustacean shellfish, fish, peanuts, tree nuts, mustard, sesame, sulphites)

Fluorine and its organic compounds  
Chlorine and its organic compounds  
Bromine and its organic compounds  
Iodine and its organic compounds

REACH Annex XIV (Authorisation List) - (see: <https://echa.europa.eu/authorisation-list>)  
Annex XVII (Restricted Substances) - (see: <https://echa.europa.eu/substances-restricted-under-reach>).

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

**FlexiSolv® DBE® esters 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 the chemicals identified above the levels indicated in the RoHS Directive.

**FlexiSolv® DBE® esters Shelf-life Statement:**

An approximate shelf life of FlexiSolv® DBE® esters 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® esters Source Statement:**

We advise you that INVISTA's FlexiSolv® DBE® esters 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 FlexiSolv® DBE® esters.

**FlexiSolv® DBE® esters 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 January 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 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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