



FlexiSolv[®] DBE[®] esters: Information Sheet

FlexiSolv[®] DBE[®] 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[®] DBE[®] esters.

Gold
Cassiterite
Wolframite
Columbite-tantalite
Tin
Tungsten
Tantalum

Please note, however, that INVISTA does not analyze FlexiSolv[®] DBE[®] esters for the chemicals identified in your inquiry.

FlexiSolv[®] DBE[®] esters Global Inventory Status:

Be advised that the components of FlexiSolv[®] DBE[®] 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)
Taiwan (NECSI)

FlexiSolv[®] DBE[®] esters ISO Certificate:

FlexiSolv[®] DBE[®] esters ISO Certificate is available upon request.

FlexiSolv[®] DBE[®] 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[®] DBE[®] 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 SO₂
Acetone
1,4-dioxane
Ethylene oxide
Latex
Asbestos
PEG-7 GLYCERYL COCOATE
PEG-Derivates (Polyethylene Glycol Derivates)
Mink Oil

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

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[®] 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 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[®] 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 27 June 2018 <http://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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