

FlexiSolv[®] DBE[®]-5 ester: Information Sheet

FlexiSolv[®] DBE[®]-5 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[®]-5 ester.

Gold
Cassiterite
Wolframite
Columbite-tantalite
Tin
Tungsten
Tantalum

Please note, however, that INVISTA does not analyze FlexiSolv[®] DBE[®]-5 ester for the chemicals identified in your inquiry.

FlexiSolv[®] DBE[®]-5 ester Global Inventory Statement:

Be advised that the components of FlexiSolv[®] DBE[®]-5 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[®]-5 ester ISO Certificate:

FlexiSolv[®] DBE[®]-5 ester ISO Certificate is available upon request.

FlexiSolv[®] DBE[®]-5 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[®]-5 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
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

Tributylamine
Ethylbenzene
Paraben
DEHA (Diethylhydroxylamine)
PEG-7 GLYCERYL COCOATE
PEG-Derivates (Polyethylene Glycol Derivates)
Mink Oil

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®-5 ester for the materials identified in your inquiry on a routine basis.

FlexiSolv® DBE®-5 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 FlexiSolv® DBE® esters and its fractions the chemicals identified above the levels indicated in the RoHS Directive.

FlexiSolv® DBE®-5 ester Shelf-life Statement:

An approximate shelf life of FlexiSolv® DBE®-5 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®-5 ester Source Statement:

We advise you that INVISTA's FlexiSolv® DBE®-5 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®-5 ester.

FlexiSolv® DBE®-5 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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