

## **Adi-pure® Free Flo Adipic Acid: Information Sheet**

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### **Adi-pure® Free Flo Adipic Acid 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 Adi-pure® Free Flo Adipic Acid.

Gold  
Tin  
Tungsten  
Tantalum  
Cassiterite  
Wolframite  
Columbite-tantalite

Please note, however, that INVISTA does not analyze Adi-pure® Free Flo Adipic Acid for the chemicals identified in your inquiry.

### **Adi-pure® Free Flo Adipic Acid Inventory Status:**

Adi-pure® Free Flo Adipic Acid is present on the following inventories:

Australia (AICS)  
Canada (DSL)  
China (IECSC)  
European Union (EINECS)  
Japan (ENCS)  
Japan (ISHL)  
Korea (KECI)  
New Zealand  
Philippines (PICCS)  
United States (TSCA)  
Taiwan (TCSI)

### **Adi-pure® Free Flo Adipic Acid ISO Certificate:**

Adi-pure® Free Flo Adipic Acid ISO Certificate is available upon request.

### **Adi-pure® Free Flo Adipic Acid Restricted Substances:**

Based on our knowledge we advise you that INVISTA's Adi-pure® Free Flo Adipic Acid does not intentionally contain any of the substances identified in the list below. Please note that copper is used in the production of Adi-pure® Free Flo Adipic Acid.

Please note, however, that INVISTA does not analyze Adi-pure® Free Flo Adipic Acid for the chemicals identified below on a routine basis.

Aluminum (Al) and its compounds  
Antimony (Sb) and its compounds

Arsenic (As) and its compounds  
Barium (Ba) and its compounds  
Beryllium (Be) and its compounds  
Boron (B) and its compounds  
Cadmium (Cd) and its compounds  
Cobalt (Co) and its compounds  
Copper (Cu) and its compounds  
Chromium (Cr) and its compounds  
Lead (Pb) and its compounds  
Manganese (Mn) and its compounds  
Mercury (Hg) and its compounds  
Nickel (Ni) and its compounds  
Selenium (Se) and its compounds  
Silver (Ag) and its compounds  
Strontium (Sr) and its compounds  
Thallium (Tl) and its compounds  
Tin (Sn) and its compounds  
Zinc (Zn) and its compounds  
Polyaromatic hydrocarbons:  
Naphthalene  
Acenaphthylene  
Acenaphthene  
Fluorene  
Phenanthrene  
Anthracene  
Fluoranthene  
Pyrene  
Benzo(a)anthracene  
Chrysene  
Benzo(b)fluoranthene  
Benzo(k)fluoranthene  
Benzo(a)pyrene  
Indeno(1,2,3-cd)pyrene  
Dibenzo(a,h)anthracene  
Benzo(g,hi)perylene

Polychlorinated biphenyls (PCB):

1,1'-Biphenyl, 2,4',5-trichloro- (CAS nr 16606-02-3)  
1,1'-Biphenyl, 2,3,3',4'-tetrabromo- (CAS nr 40088-45-7)  
1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo- (CAS nr 59080-40-9)  
2,2',4,4'-Tetrachlorobiphenyl (CAS nr 2437-79-8)  
2,3',4,4',5,5'-HEXACHLOROBIPHENYL (CAS nr 52663-72-6)  
2,4,5,2',4',5'-Hexachlorobiphenyl (CAS nr 35065-27-1)  
3,3',4,4'-TETRACHLOROBIPHENYL (CAS nr 32598-13-3)  
3,4,5,3',4',5'-Hexachlorobiphenyl (CAS nr 32774-16-6)  
Aroclor 1016 (CAS nr 12674-11-2)  
Aroclor 1221 (CAS nr 11104-28-2)  
Aroclor 1232 (CAS nr 11141-16-5)  
Aroclor 1242 (CAS nr 53469-21-9)  
Aroclor 1248 (CAS nr 12672-29-6)  
AROCLOR 1254 (CAS nr 11097-69-1)  
Aroclor 1260 (CAS nr 11096-82-5)  
Heptachloro-1,1'-biphenyl (CAS nr 28655-71-2)

Nonachloro-1,1'-biphenyl (CAS nr 53742-07-7)  
pentachloro[1,1'-biphenyl] (CAS nr 25429-29-2)  
Polychlorinated biphenyls (CAS nr 1336-36-3)  
Tetrachloro(tetrachlorophenyl)benzene (CAS nr 31472-83-0)  
Polychlorinated naphthalenes (PCN):  
Naphthalene, chloro derivatives (CAS nr 70776-03-3)  
Naphthalene, trichloro- (CAS nr 1321-65-9)  
Pentachloronaphthalene (CAS nr 1321-64-8)  
Polychlorinated naphthalene (CAS nr 38289-27-9)  
Polychlorinated terphenyls (PCT):  
Terphenyl, chlorinated (CAS nr 61788-33-8)

Short-chain chlorinated paraffins of 10 to 13 carbon atoms (SCCP) etc.  
Other organochlorine compounds  
Polybrominated biphenyls (PBB) etc.  
Decabromodiphenyl ether (DecaBDE) including polybrominated diphenyl ethers (PBDE) etc.  
Other organic bromine compounds  
Bis (tributyltin) oxide (TBTO)  
Trisubstituted organotin compounds: excluding TBTO  
Dibutyltin (DBT) compounds  
Diocetyl tin (DOT) compounds  
Asbestos compounds ( Actinolite,Amosite,Anthrophyllite,Chrysolite, Crocidolite,Termolite)

Carcinogenic amines formed from azo-dyes:  
2,4,5-Trimethylaniline (CAS nr 137-17-7)  
2-Naphthylamine (CAS nr 91-59-8)  
3,3'-Dichlorbenzidine (CAS nr 91-94-1)  
3,3'-Dimethoxybenzidine (CAS nr 119-90-4)  
3,3'-Dimethylbenzidine (CAS nr 119-93-7)  
4,4'-Methylene-bis-(2-chloroaniline) (CAS nr 101-14-4)  
4,4'-Methylenedianiline (CAS nr 101-77-9)  
4,4'-Methylenedi-o-toluidine (CAS nr 838-88-0)  
4,4'-Oxydianiline (CAS nr 101-80-4)  
4,4'-Thiodianiline (CAS nr 139-65-1)  
4-Aminodiphenyl (CAS nr 92-67-1)  
4-Chloraniline (CAS nr 106-47-8)  
4-Chloro-o-toluidine (CAS nr 95-69-2)  
4-Methoxy-m-phenylenediamine (CAS nr 615-05-4)  
4-Methyl-m-phenylenediamine (CAS nr 95-80-7)  
5-Nitro-o-toluidine (CAS nr 99-55-8)  
Benzidine (CAS nr 92-87-5)  
o-Aminoazotoluene (CAS nr 97-56-3)  
o-Anisidine (CAS nr 90-04-0)  
o-Toluidine (CAS nr 95-53-4)  
p-Cresidine (CAS nr 120-71-8)  
4-Aminoazobenzol (CAS nr 60-09-3)

Phthalates:  
"Benzyl butyl phthalate (BBP)  
(1,2-Benzenedicarboxylic acid, 1-butyl 2-(phenylmethyl) ester) (CAS nr 85-68-7)"  
"Bis(2-methoxyethyl) phthalate  
(1,2-Benzenedicarboxylic acid, 1,2-bis(2-methoxyethyl) ester) (CAS nr 117-82-8)"  
"Di(2-ethylhexyl)phthalate (DEHP)

(1,2-Benzenedicarboxylic acid, 1,2-bis(2-ethylhexyl) ester) (CAS nr 117-81-7)"  
 "Dibutylphthalate (DBP)  
 (1,2-Benzenedicarboxylic acid, 1,2-dibutyl ester) (CAS nr 84-74-2)"  
 "Diisobutylphthalate (DiBP)  
 (1,2-Benzenedicarboxylic acid, 1,2-bis(2-methylpropyl) ester ) (CAS nr 84-69-5)"  
 "Diisopentylphthalate (DIPP)  
 (1,2- Benzenedicarboxylic acid, 1,2-bis(3-methylbutyl) ester) (CAS nr 605-50-5)"  
 "Heptyl undecyl phthalate  
 (1,2-Benzenedicarboxylic acid di-C7-11-branched and linear alkyl-esters) (CAS nr 68515-42-4)"  
 (1,2-Benzenedicarboxylic acid, diundecyl ester) (CAS nr 3648-20-2)  
 1,2-Benzenedicarboxylic acid; di-C6-8-branched alkylesters, C7-rich (CAS nr 71888-89-6)  
 (1,2-Benzenedicarboxylic acid, diheptyl ester, branched and linear) (CAS nr 68515-44-6)  
 (1,2-Benzenedicarboxylic acid, dinonyl ester, branched and linear) (CAS nr 68515-45-7)  
 (1,2-Benzenedicarboxylic acid, heptyl nonyl ester, branched and linear) (CAS nr 111381-89-6)  
 (1,2-Benzenedicarboxylic acid, heptyl undecyl ester, branched and linear) (CAS nr 111381-90-9)  
 (1,2-Benzenedicarboxylic acid, nonyl undecyl ester, branched and linear) (CAS nr 111381-91-0)  
 "Dipentylphthalate  
 (1,2-Benzenedicarboxylic acid, 1,2-dipentyl ester) (CAS nr 131-18-0)"  
 Di-isononyl phthalate (CAS nr 8553-12-0)  
 Di-isodecyl phthalate (CAS nr 26761-40-0)  
 Di-n-octylphthalate (CAS nr 117-84-0)  
 Di-isononylphthalate (CAS nr 68515-48-0)  
 Diethyl phthalate  
 BADGE (2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether, CAS 1675-54-3)  
 BFDGE (bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ethers, CAS 039817-09-9)  
 NOGE (novolac glycidyl ethers)

Triphenylphosphate (CAS 115-86-6)  
 Formaldehyde  
 Oxalic acid  
 Polyvinyl chloride (PVC) and PVC mixture  
 Fluorinated greenhouse gases (PFC, HFC, SF6) etc.  
 Ozone Depleting Substances: A Montreal Protocol Annex, B, C, substances according to E  
 Perfluorooctane sulfonate (PFOS) and its salts, and perfluorooctane sulfonate fluoride (PFOSF)  
 Perfluorooctanoic acid (PFOA)  
 Specific benzotriazole (target: CASNo.3846-71-7)  
 Cobalt chloride  
 Dimethyl fumarate (DMF)  
 Radioactive material  
 Perchlorate  
 Phosphoric acid tris (2 - chloroethyl)  
 Methyl bromide  
 Brominated flame retardants (s PBB, etc. PBDE, except HBCDD) and  
 Diarsenic pentoxide  
 Arsenic trioxide  
 Triethyl arsenate  
 Hexabromocyclododecane (HBCDD) and all major diastereoisomers  
 Diisobutyl phthalate (DIBP)  
 Aluminosilicates, refractory ceramic fibers  
 Aluminum zirconium silicate, refractory ceramic fibers  
 Boric acid  
 Disodium tetraborate anhydrous  
 Sodium boron oxide hydrate four seven (hydrated sodium tetraborate).

[4 - {bis (4 - dimethylaminophenyl) methylene} -2,5 - cyclohexadien-1 - ylidene] dimethylammonium chloride (CI BASIC VIOLET 3 aliases)

Pesticides

Disperse dyes and dyestuff

Methylphenol

Alkyphenols ( AP=NP,OP)

Alkylphenoethoxylate(APEO=NPEO)

Short chained chloroparaffines C-10-C13

Medium chained chloroparaffines C14-C17

Carcinogenic dyes

Benzene

Phenol

Tetrachloroethane

Toluene

Xylene

Trichloroethylene

5-tert-butyl-2,4,6-trinitro-m-xylene

2,4-Dinitro toluene

Ozone depleting substances

Blue Colourants

Dioxins& furans

Sperm whale oil

Dichloro Diphenyl Trichloroethane(DDT)

Glyoxal

Titanium Dioxide

Halogenated solvents

Halogenated Dioxins or Dibenzofurans

Aromatic solvents

Epichlorohydrin

Benzidine

N-methyl pyrrolinone (NMP)

Perchlorate

1,3-Butadiene

Vinyl acetate

Ethyl acrylate

Styrene

Hexachloroethane

1,4-Dioxane

Acrylamide

Dichlorvos

Toluene-2,4-diisocyanate

4,4 Methyleneedianiline

4,4-Methylenebis(2-chloroaniline)

Di-n-butyl phthalate

Benzophenone

4,4-Bisphenol A

Isocyanates

Natural Rubber Latex (NRL)

Butylated Hydroxy Toluene (BHT)

Polybrominated Flame Retardants

Arylamines

Organochlorinated Compounds

Polycyclic Aromatic Hydrocarbons  
Octamethylcyclotetrasiloxane  
Dyes/colorants listed in ZDHC (Zero Discharge of Hazardous Chemicals Programme)  
([http://ir.lining.com/eng/csr/csr\\_reports/mrsl20140605.pdf](http://ir.lining.com/eng/csr/csr_reports/mrsl20140605.pdf))

Inditex Standards

([http://www.inditex.com/sustainability/product/health\\_quality\\_standards](http://www.inditex.com/sustainability/product/health_quality_standards))

Oeko-tex

([https://www.oeko-tex.com/en/manufacturers/test\\_criteria/limit\\_values/limit\\_values.html](https://www.oeko-tex.com/en/manufacturers/test_criteria/limit_values/limit_values.html))

GOTS Approved (Global Organic Textile Standard)

(<http://www.global-standard.org/certification.html>)

**Adi-pure<sup>®</sup> Free Flo Adipic Acid RoHS Statement:**

This note concerns compliance with European Directive 2011/65/EC as amended (RoHS Directive). This directive places restrictions on the maximum concentration of lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenylethers (PBDE) in electrical and electronic equipment.

We advise you that INVISTA does not include as an intentional additive or ingredient in *Adi-pure<sup>®</sup> Free Flo Adipic Acid* for the chemicals identified below, above the levels indicated in the RoHS Directive.

Cadmium

Lead

Mercury

Hexavalent chromium

PBB (PolybrominatedBiphenyl) and their Ethers/Oxide (PBDE's, PBBE's, TBBP-A)

**Adi-pure<sup>®</sup> Free Flo Adipic Acid Shelf-life Statement:**

An approximate shelf-life of *Adi-pure<sup>®</sup> Free Flo Adipic Acid* is two years, if the product is stored in the original container, in a cool and dry location and tightly closed. Based on best practice, it is recommended to rotate out the inventory on a first-in, first-out basis to minimize caking. Because storage and local conditions vary and INVISTA has no control over the practices, procedures and conditions at a customer's facility, the shelf-life estimate provided should be used as guidance only. It is not provided as a guarantee of any shelf life.

**Adi-pure<sup>®</sup> Free Flo Adipic Acid Source Statement:**

Be advised that INVISTA's *Adi-pure<sup>®</sup> Free Flo Adipic Acid* manufactured at our Victoria, Texas facility is manufactured from petrochemical-based feed stocks. No raw materials, reagents or support materials (buffers, catalysts, filter media) used in the manufacture of *Adi-pure<sup>®</sup> Free Flo Technical Grade Adipic Acid* are of animal or human origin.

**Adi-pure<sup>®</sup> Free Flo Adipic Acid SVHC Statement:**

Based on our knowledge, we advise you, that *Adi-pure<sup>®</sup> Free Flo Adipic Acid* is not listed as a SVHC substance on the EU Candidate List of Substances of Very High Concern (as updated on 16 July 2019 <http://echa.europa.eu/candidate-list-table>). INVISTA does not include as an intentional additive or ingredient any SVHC substances in the manufacture of *Adi-pure<sup>®</sup> Free Flo Adipic Acid*.

Please note however, that INVISTA does not analyze *Adi-pure<sup>®</sup> Free Flo Adipic Acid* for SVHC substances on a routine basis.

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